Domestic Waterborne Trade of the United States 1978—1982

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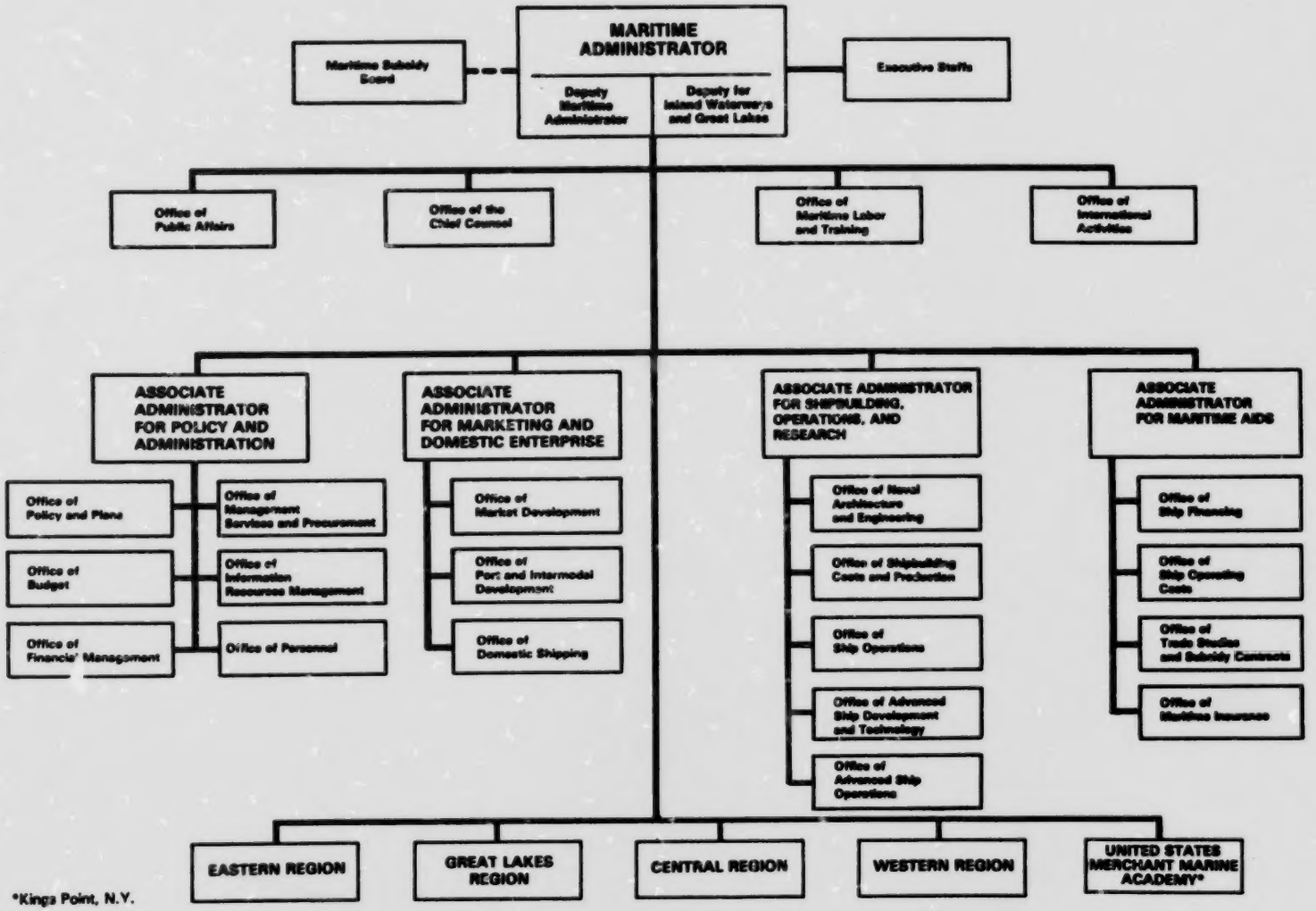
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Introduction[1/]

I. General

The purposes of this publication are to exhibit the flow of domestic waterborne commerce in the United States and to increase awareness of its scale, diversity, and vitality.

Water is one of the major transportation modes for the movement of goods between cities within the continental United States and is the principal avenue of commerce for Alaska, Hawaii, Guam, Puerto Rico, and the U.S. Virgin Islands. Domestic trade may be classified as ocean, inland waterways, and Great Lakes, depending upon which waters were exclusively or jointly traversed during the movement. The total amount of domestic waterborne trade in 1982 was approximately 970 million short tons (2,000 lbs.), with 325 million tons or 33 percent on the ocean, 568 million tons or 59 percent on the inland waterways, and 77 million tons or 8 percent on the Great Lakes. Of the five transportation modes -- highway motor freight, railroads, airways, pipelines, and water -- carriage by water accounts for approximately 26 percent of total intercity freigh tonnage.

II. Operator Qualifications

For a carrier by water to qualify to operate in the domestic trades it must be a U.S. citizen; a corporation, association, or partnership must have at least 75 percent of the controlling interest owned by U.S. citizens. The president or other chief executive officer and the chairman of the board of a corporation must be U.S. citizens; no more than a minority of the number of directors necessary to constitute a quorum may be non-citizens; and the corporation must be organized in the United States. The carrier's vessel(s) must be U.S. constructed and crewed with U.S. citizens. If the firm is a common carrier (i.e. offers scheduled service at published rates to any shipper), it must file a schedule or tariff of rates, charges, and conditions of carriage with the Federal regulatory agency which has economic regulatory jurisdiction.

1/ Portions of the material in this introductory section have been taken from the publication "Big Load Afloat," issued by American Waterways Operators, Inc. and from a draft National Waterways Study report titled "Overview of Transportation Industry" prepared for the U.S. Army Corps of Engineers.

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III. Nature of Operations

Water transportation operations vary widely among the three trade areas. The numbers, sizes and types of firms engaged in water transportation, the types of equipment used and the nature of the services provided are all influenced by the operating conditions and markets which prevail. Some specifics of shipping activity in each area are described in the following sections.

A. Domestic Ocean Shipping (Coastwise, Intercoastal, and Noncontiguous

Physical constraints to ocean operation include significant wave action, harbor depths, and vessel size limitations imposed by the Panama Canal (106'x900'x36') and harbor turning basins. Wave action has limited the speed of conventional barge operations (8-12 nautical miles per hour) and has resulted in most long-range commerce being carried in self-propelled vessels. Depth limitations in harbors and size restrictions at the Panama Canal have not affected the ability of the industry to meet demand but have limited economies of scale which might otherwise be attainable.

Virtually all the traffic in non-bulk goods among the contiguous states is moved by land transportation modes. Water transport is critical for all types of goods between the contiguous 48 states and Alaska, Hawaii, Guam, Puerto Rico and the Virgin Islands. Demand for non-bulk ships is defined by the size of these markets. There are currently five operators of service between the U.S. mainland and these non-contiguous states and territories which employ container or roll-on/roll-off (RO/RO) ships. The more prominent activity is that of tankships carrying crude petroleum and refined petroleum products among the mainland states and to and from the offshore states and territories. The opening of the Alaskan pipeline in 1977 made shipments of crude oil a major element in domestic ocean operations.

Although conditions in the ocean trade favor self-propelled vessel operations, barges are used to at least some degree on all trade routes. Tug and barge combinations have several advantages over self-propelled vessels -- lower labor costs, ability to penetrate shallow inlets and rivers, and better fuel economy. Nevertheless, wave action has remained a dominant design and operating consideration since it limits speed and maneuverability. This has led to the use of notched barges and integrated tug barge operations. Notched barges have an indentation in the stern for the insertion of the bow of a power vessel, This creates greater resistance to longitudinal movements between the barge and the power vessel and enhances control under adverse conditions. Such barges tend to be much larger than conventional barges used on the inland river system and Great Lakes; ocean barges in service today carry as much as 40,000 tons. In addition to providing flexibility in equipment use,

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the tug/barge combination has lower crewing requirements than a ship, making it more economical. In an integrated tug/barge system, the two units remain joined -- either rigidly or semi-rigidly -- throughout the voyage, while ordinary notched barges must revert to hawser towing in other than calm seas.

There are hundreds of ocean tug and barge operators but only about a dozen large ones. They serve all seacoasts and the offshore states and territories with dry cargo, tank and specialty barges (eg. liquefied gas, railcar, and RO/RO).

Regulatory jurisdiction over the ocean trade is limited to non-bulk commodities and is divided between two agencies. Jurisdiction over traffic between ports in the contiguous 48 states resides with the Interstate Commerce Commission. Jurisdiction over traffic between the contiguous 48 states and Alaska, Hawaii, Guam, Puerto Rico, and the U.S. Virgin Islands rests with the Federal Maritime Commission. However, the Interstate Commerce Commission has jurisdiction over common carriers by water offering service at joint motor/water or joint rail/water rates between points on the U.S. mainland and points in Alaska and Hawaii. Regulation covers about four percent of total domestic ocean traffic.

B. Inland River Shipping

The inland waterways of the United States can be divided into at least nine major waterway systems: (1) Atlantic Intracoastal; (2) Gulf Intracoastal; (3) Mississippi River and its tributaries; (4) Ohio River and its tributaries; (5) McClellan-Kerr Arkansas River; (6) Illinois River; (7) New York State Barge Canal; (8) Black Warrior, Warrior and Tombigbee Rivers, and (9) Columbia-Snake Rivers.

Most freight moving on U.S. inland waterways is carried in unmanned, non-self-propelled barges having drafts of up to nine feet. Barges are lashed together in groups or strings and moved by towing vessels, either a towboat pushing them ahead or a tug pulling them on a hawser. This positioning of the power and the use of multi-barge tows is feasible because of the absence of significant wave action. Self-propelled barges are used primarily on the New York State Barge Canal, since the small size of the locks and low level of traffic do not make practical the use of a separate towing vessel.

Barges are designed for carrying specific kinds of cargo. The open hopper barge is used primarily for dry bulk commodities not susceptible to weather damage, for example, sand, gravel, or coal. Covered hopper barges are used for grains and other commodities that need to be protected. Deck barges are used for transporting vehicles or heavy equipment. Tank barges are used for liquid commodities such as petroleum and hazardous materials, while cylindrical tank barges carry various gases under pressure or refrigeration. The typical

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inland waterway barge is 195 feet long, 35 feet wide with a draft of nine feet when fully loaded. Its capacity is approximately 1500 short tons.

Towboats in use on the inland rivers range in size from those of a few hundred horsepower to very large boats of 10,500 horsepower, with the most common sizes being 2,000, 4,000, and 6,000 horsepower. The trend has been to use larger boats in larger tows, thus, the larger boats also tend to be newer. Average horsepower of the fleet is approximately 1,700 and average age is less than 15 years, indicating a growing fleet with many new additions. The average fleet horsepower should continue to increase as more boats in the 3,000 to 7,000 horsepower range are introduced.

Over 1,800 companies are engaged in commercial operations on the inland waters. They employ some 25,000 dry cargo barges; about 3,800 tank barges; and approximately 4,400 towboats. The commodities particularly attracted to inland waterborne transportation are raw materials and intermediate products moving in large quantities from one stage of production and processing to the next stage of finishing. Barge transportation is an essential part of our mass production and marketing processes. Increasing demand for service has stimulated improvement of channels, equipment, and technology of operations. Barge service is the lowest cost mode of transportation for the commodities to which it is adaptable.

The Transportation Act of 1940 gave authority to the Interstate Commerce Commission to regulate rates and entry into the industry. However, bulk commodities were exempted from regulation. Thus, only about 14 percent of inland waterway trade is subject to economic regulation. Regulated commerce consists primarily of iron and steel products and general commodities.

C. Great Lakes Shipping

Water transportation on the Great Lakes uses both barges and self-propelled vessels, relying primarily on the latter since the wave action on these large bodies of water precludes close-linked multi-barge tows such as those on the rivers. Compared to those of the inland waterway system, the barges operating on the Great Lakes are much fewer in number with less fleet capacity. Average capacity is greater for all types of barges, however, indicating that lock dimensions are less of a constraint on barge size. There is a virtual absence of covered hopper barges in the Great Lakes fleet since grain is carried in self-propelled lake bulkers. Barge tows are smaller than those on the rivers and most barges are used for relatively short hauls close to the shore. Tugs and towboats in use on the Great Lakes are, on the average, both smaller and older than those in use on the rivers. The average size is about 1,300 horsepower and the average age about 24 years. This is consistent with the smaller number of barges per tow on the Lakes and the relatively stable market for Lakes shipping.

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The number of vessels and total capacity have decreased since World War II, with slightly under 600 vessels currently in the fleet. About 134 of these are self-propelled dry and liquid bulk carriers, with the remainder consisting of small passenger vessels, tugs, barges, ferries, dredges, railroad car floats, and miscellaneous small cargo vessels. However, average self-propelled vessel size has increased substantially as older vessels are replaced with larger new ones, including several of 1,000 foot length and over 60,000 tons capacity. Navigation season extension programs of recent years have permitted increased vessel utilization, allowing fewer vessels to handle the same amount of commerce. The only vessel type which has experienced an increase in aggregate capacity since World War II is the self-unloader, which reduces vessel turnaround times and enables them to call at ports with limited or no unloading facilities.

The fleet is oriented primarily to the needs of the steel industry and electric utilities. Ore, coal, and limestone accounted for about 87 percent of domestic lakes commerce in 1982. There are about 125 carriers, operating in a stable environment, including 26 running self-propelled dry and liquid bulk vessels who are oriented to the unique logistics requirements of major shippers on specific limited trade lanes. In a number of cases, shippers themselves own large fleets of vessels. Less than one percent of Great Lakes domestic traffic is subject to ICC regulation since bulk commodities are exempt.

IV. Acknowledgement

The basic data processed in compiling this publication are provided to the Maritime Administration principally by the Corps of Engineers, Department of the Army. Other sources include the Research and Special Programs Administration, Department of Transportation and the Transportation Policy Associates (intercity freight by mode).

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DEFINITIONS

Domestic Oceanborne and Great Lakes Geographical Areas are used to categorize tonnages shipped between ports within the Domestic Oceanborne and Great Lakes trade. These areas are:

North Atlantic - Maine to Virginia/North Carolina state line

South Atlantic - Virginia/North Carolina state line to Key West, Florida

Gulf - Key West, Florida to the border of Mexico

California - California

Pacific Northwest - Washington and Oregon

Great Lakes - all United States ports in the Great Lakes system

Hawaii - all ports in the Hawaiian Islands

Alaska - all ports in Alaska and the Aleutian Islands

Puerto Rico - Puerto Rico and the Virgin Islands

Other Pacific Islands - Wake, Guam, Midway and other island possessions and protectorates in the Pacific Ocean

Domestic Trade includes all movements of commercial and military cargoes in commercial vessels within and between the three trade areas of Domestic Oceans, Great Lakes and Inland Waterways. Excluded are military cargoes moving in Department of Defense vessels.

Domestic Oceans trade is comprised of three areas: noncontiguous, coastwise, and intercoastal.

Noncontiguous includes trade between the United States mainland and Alaska, Hawaii, Puerto Rico, Virgin Islands, and trust territories. (Virgin Islands trade is included although they are not subject to the Jones Act.)

Coastwise includes trade within the Atlantic, Gulf, and Pacific coasts. It also includes trade between the Great Lakes, Atlantic and Gulf coasts.

Intercoastal includes trade in interstate commerce of the United States by way of the Panama Canal.

Inland Waterways trade includes shipments on the Atlantic and Gulf coast intracoastal waterways, the Mississippi River System and Pacific coast waterways.

Great Lakes domestic trade includes shipments within the territorial limits of the United States on Lakes Superior, Michigan, Huron, Erie and Ontario. Foreign trade from the Great Lakes is divided into two categories: translakes and other foreign. Trade between the United States Great Lakes ports and Canadian ports extending from the Great Lakes to the St. Lawrence Seaway is considered "translake trade." Trade outside the St. Lawrence Seaway with Canada and all other foreign countries is considered "other foreign trade."

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Dry and Tank refers to a type of vessel, whether self-propelled or non-self-propelled, capable of handling such cargoes.

Inland Waterway Geographical Areas are used to categorize tonnage shipped between ports within the Inland Waterways trade.

Northeastern - New York State Barge Canal and points from Maine to Northern New Jersey.

Atlantic Inland Waterways - Philadelphia and Southern New Jersey to Key West, Florida.

Gulf Inland Waterways - St. Marks, Florida to Brownsville, Texas.

Lower Mississippi - New Orleans, Louisiana to Ohio River/Mississippi River junction.

Upper Mississippi - St. Louis, Missouri to Minneapolis, Minnesota.

Ohio and Trib. - Ohio River and Mississippi River junction to Pittsburgh, Pennsylvania.

California - Los Angeles, Sacramento and San Francisco areas.

Pacific Northwest - Portland, Oregon, Seattle and Walla Walla, Washington areas.

Great Lakes - Lakes Ontario, Erie, Huron Michigan and Superior.

Non-self-propelled Vessels are commonly referred to as barges, and are generally pushed or pulled by an external power source.

Short ton equals 2,000 pounds.

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DEFINITIONS

Commodity Classifications are assigned by the Corps of Engineers in conformance with the "commodity classifications for shipping statistics" prepared by the Interagency Committee on Shipping Statistics. The principal commodities listed in Table Six are based on a four digit description. The Inland Waterways statistical tables are based on a two digit group description. Only major groups transported on the Inland Waterways are included with the remaining groups classified as other. The following list provides these classifications.

Group 01 - Farm Products

Code No.	Item Name
0101	Cotton, raw
0102	Barley and rye
0103	Corn
0104	Oats
0105	Rice
0106	Sorghum grains
0107	Wheat
0111	Soybeans
0112	Flaxseed
0119	Oilseeds, not elsewhere classified
0121	Tobacco, leaf
0122	Hay and fodder
0129	Field crops, not elsewhere classified
0131	Fresh fruits and tree nuts, except bananas and plantains
0132	Bananas and plantains
0133	Coffee, green and roasted, (including instant)
0134	Cocoa beans
0141	Fresh and frozen vegetables
0151	Live animals (livestock), except zoo animals, cats, dogs, etc.
0161	Animals and animal products, not elsewhere classified
0191	Miscellaneous farm products

Group 08 - Forest Products

Code No.	Item Name
0841	Crude rubber and allied gums
0861	Forest products, not elsewhere classified

Group 09 - Fresh Fish and Other Marine Products

Code No.	Item Name
0911	Fresh fish, except shellfish
0912	Shellfish, except prepared or preserved
0913	Menhaden
0931	Marine shells, unmanufactured

Group 10 - Metallic Ores

Code No.	Item Name
1011	Iron ore and concentrates
1021	Copper ore and concentrates
1051	Bauxite and other aluminum ores and concentrates
1061	Manganese ores and concentrates
1091	Nonferrous metal ores and concentrates, not elsewhere classified

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Group 11 - Coal

Code No.	Item Name
1121	Coal and lignite

Group 13 - Crude Petroleum

1311	Crude Petroleum

Group 14 - Nonmetallic Minerals, Except Fuels

1411	Limestone flux and calcareous stone
1412	Building stone, unworked
1442	Sand, gravel and crushed rock
1451	Clay, ceramic and refractory materials
1471	Phosphate rock
1479	Natural fertilizer materials, not elswhere classified
1491	Salt
1492	Sulphur, dry
1493	Sulphur, liquid
1494	Gypsum, crude and plasters
1499	Nonmetallic minerals, except fuels, not elsewhere classified

Group 19 - Ordnance and Accessories

1911	Ordnance and accessories

Group 20 - Food and Kindred Products

Code No.	Item Name
2011	Meat, fresh, chilled or frozen
2012	Meat and meat products prepared or preserved, including canned meat products
2014	Tallow, animal fats and oils
2015	Animal by-products, not elsewhere classified
2021	Dairy products, except dried milk and cream
2022	Dried milk and cream
2031	Fish and fish products, including shellfish, prepared or preserved
2034	Vegetables and preparations, canned and otherwise prepared and preserved
2039	Fruits and fruit and vegetable juices, canned and otherwise prepared or preserved
2041	Wheat flour and semolina
2042	Prepared animal feeds
2049	Grain mill products, not elsewhere classified
2061	Sugar
2062	Molasses
2081	Alcoholic beverages
2091	Vegetable oils, all grades; margarine and shortening
2092	Animal oils and fats, not elsewhere classified, including marine
2094	Groceries
2095	Ice
2099	Miscellaneous food products

Group 21 - Tobacco Products

2111	Tobacco manufactures

10

Group 22 - Basic Textiles

Code No.	Item Name
2211	Basic textile products, except textile fibers
2212	Textile fibers, not elsewhere classified

Group 23 - Apparel and Other Finished Textile Products, Including Knit

2311	Apparel and other finished textile products, including knit

Group 24 - Lumber and Wood Products, Except Furniture

2411	Logs
2412	Rafted logs
2413	Fuel wood, charcoal, and wastes
2414	Timber, posts, poles, piling, and other wood in the rough
2415	Pulpwood, log
2416	Wood chips, staves, moldings, and excelsior
2421	Lumber
2431	Veneer, plywood, and other worked wood
2491	Wood manufactures, not elsewhere classified

Group 25 - Furniture and Fixtures

2511	Furniture and fixtures

Group 26 - Pulp, Paper and Allied Products

Code No.	Item Name
2611	Pulp
2621	Standard newsprint paper
2631	Paper and paperboard
2691	Pulp, paper and paperboard products, not elsewhere classified

Group 27 - Printed Matter

2711	Printed Matter

Group 28 - Chemicals and Allied Products

2810	Sodium hydroxide (caustic soda)
2811	Crude products from coal tar, petroleum, and natural gas, except benzene and toluene
2812	Dyes, organic pigment, dyeing and tanning materials
2813	Alcohols
2816	Radioactive and associated materials, including wastes
2817	Benzene and toluene, crude and commercially pure
2818	Sulphuric acid
2819	Basic chemicals and basic chemical products, not elsewhere classified
2821	Plastic materials, regenerated cellulose and synthetic resins, including film, sheeting, and laminates
2822	Synthetic rubber
2823	Synthetic (man-made) fiber

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Code No.	Item Name
2831	Drugs (biological products, medicinal chemicals, botanical products and pharmaceutical preparations)
2841	Soap, detergents, and cleaning preparations; perfumes, cosmetics and other toilet preparations
2851	Paints, varnishes, lacquers, enamels, and allied products
2861	Gum and wood chemicals
2871	Nitrogenous chemical fertilizers, except mixtures
2872	Potassic chemical fertilizers, except mixtures
2873	Phosphatic chemical fertilizers, except mixtures
2876	Insecticides, fungicides, pesticides, and disinfectants
2879	Fertilizers and fertilizer materials, not elsewhere classified
2891	Miscellaneous chemical products
	Group 29 - Petroleum and Coal Products
2911	Gasoline, including natural gasoline
2912	Jet fuel
2913	Kerosene
2914	Distillate fuel oil
2915	Residual fuel oil
2916	Lubricating oils and grease
2917	Naphtha, mineral spirits, solvents, not elsewhere classified
2918	Asphalt, tar, and pitches
2920	Coke, including petroleum coke
2921	Liquefied petroleum gases, coal gases, natural gas, and natural gas liquids
2951	Asphalt building materials
2991	Petroleum and coal products, not elsewhere classified
	Group 30 - Rubber and Miscellaneous Plastics Products
3011	Rubber and miscellaneous plastics products
	Group 31 - Leather and Leather Products
3111	Leather and leather products
	Group 32 - Stone, Clay, Glass, and Concrete Products
3211	Glass and glass products
3241	Building cement
3251	Structural clay products, including refractories
3271	Lime
3281	Cut stone and stone products
3291	Miscellaneous nonmetallic mineral products
	Group 33 - Primary Metal Products
3311	Pig iron
3312	Slag
3313	Coke (coal and petroleum), petroleum pitches and asphalts, and naphtha and solvents
3314	Iron and steel ingots, and other primary forms, including blanks for tube and pipe, and sponge iron
3315	Iron and steel bars, rods, angles, shapes and sections, including sheet piling
3316	Iron and steel plates and sheets
3317	Iron and steel pipe and tube
3318	Ferroalloys

Code No.	Item Name
3319	Primary iron and steel products, not elsewhere classified, including castings in the rough
3321	Nonferrous metals primary smelter products, basic shapes, wire, castings and forgings, except copper, lead, zinc and aluminum
3322	Copper and copper alloys, whether or not refined, unworked
3323	Lead and zinc including alloys, unworked
3324	Aluminum and aluminum alloys, unworked
	Group 34 - Fabricated Metal Products, Except Ordnance, Machinery, and Transportation Equipment
3411	Fabricated metal products, except ordnance, machinery, and transportation equipment
	Group 35 - Machinery, Except Electrical
3511	Machinery, except electrical
	Group 36 - Electrical Machinery, Equipment and Supplies
3611	Electrical machinery, equipment and supplies
	Group 37 - Transportation Equipment
3711	Motor vehicles, parts and equipment
3721	Aircraft and parts
3731	Ships and boats
3791	Miscellaneous transportation equipment

Code No.	Item Name
	Group 38 - Instruments, Photographic and Optical Goods, Watches and Clocks
3811	Instruments, photographic and optical goods, watches and clocks
	Group 39 - Miscellaneous Products of Manufacturing
3911	Miscellaneous products of manufacturing
	Group 40 - Waste and Scrap Materials
4011	Iron and steel scrap
4012	Nonferrous metal scrap
4022	Textile waste, scrap, and sweepings
4024	Paper waste and scrap
4029	Waste and scrap, not elsewhere classified
	Group 41 - Special Items
4111	Water
4112	Miscellaneous shipments not identifiable by commodity
4113	LCL freight
4118	Materials used in waterway improvement, Government materials
9999	*Department of Defense controlled cargo and special category items

* Cargoes exported on Department of Defense controlled vessels (other than goods for the use of U. S. Armed Forces abroad) and non-Department of Defense shipments of military component items (abbreviated SC) for which commodity detail is not furnished to the Corps of Engineers.

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Basic Vessel Types Used in Domestic Ocean Commerce

Containership - Carries cargo in special intermodal cargo containers which are stowed below deck in specially fitted holds and stacked on deck several units high. Popular container sizes are 8'x8'x20' and 8'x8'x40', although other lengths are also used. Loading and unloading are accomplished by shoreside travelling crane or, occasionally, by shipboard gantry crane. Sometimes referred to as "lift-on/lift-off" vessel. Twenty-six are presently in domestic service.

Trailership - Carries wheeled or tracked vehicles, including loaded highway trailers. Vehicles are driven aboard over ramps which are either integral to the ship's hull or are stored ashore. Vertical movement on board is via built-in ramps connecting the several decks. Often referred to as "roll-on/roll-off or RO/RO" vessel. Nine are presently in domestic service.

Tankship - Carries liquid cargo in bulk, stowed in cargo tanks within vessel hull. Cargo is pumped aboard by a shore terminal and unloaded using vessel's installed pumping system. Some of the largest and newest vessels used in domestic commerce, sizes range from 16,000 to 190,000 deadweight tons. Commonly referred to as "tanker." Approximately 180 are presently in domestic service.

Bulk Carrier - Carries dry cargo in bulk, stowed in cargo holds within vessel hull. Cargo is poured aboard from elevator spouts, conveyor belts or slurry pipelines. It is unloaded using grab buckets, conveyor systems or vacuum equipment. Only nine vessels, mostly converted tankships, are presently eligible for domestic service. Commonly referred to as "dry bulker."

Barge - All of the functions performed by ships are also performed by barges, although typically on shorter voyages. Containers are fed to and from major container ports by feeder barges; trailers and other vehicles move between the mainland and offshore states and territories on triple-deck RO/RO barges; petroleum, chemicals and other bulk liquids move along the coasts in tank barges; and dry bulk commodities such as coal and phosphate rock are shipped across the Gulf of Mexico in hopper barges. Additional functions, exclusive to barges, are the ocean movement of railcars from Washington state to Alaska and carriage of unitized break-bulk cargo between the U.S. Gulf Coast and Puerto Rico. Oceangoing barges number nearly a thousand.

Passenger Vessels - Domestic passenger service, other than short-haul ferry, is limited. However, two operators offer coastwise and river system cruises with small cruise vessels accommodating about 100 passengers each. One operator provides cruises within the Hawaiian Islands, using a refurbished trans-Atlantic passenger liner. The State of Alaska seasonally operates several large passenger/vehicle ferries between Seattle and points in southeastern Alaska, plus service between points in and around Cook Inlet and Prince William Sound.

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Some Useful Ship Measurement/Tonnage Terms

Displacement, light - The weight of a vessel in long tons of 2,240 pounds, excluding the weight of cargo, passengers, crew, fuel, water, stores, and dunnage but including the weight of boiler feed water.

Displacement, loaded - The weight of a vessel in long tons of 2,240 pounds, including the weight of cargo, passengers, crew, fuel, water, stores, dunnage and boiler feed water such as to bring the vessel down to its maximum draft.

Deadweight Tonnage - The carrying capacity of a vessel in long tons of 2,240 pounds. It is the difference between displacement, light and displacement, loaded.

Cargo Deadweight Tonnage - The cargo carrying capacity of a vessel in long tons of 2,240 pounds. It is the difference between deadweight tonnage and the combined weight of passengers, crew, fuel, water, stores, dunnage and boiler feed water.

Gross Tonnage - The entire internal cubic capacity of a vessel, expressed in tons of 100 cubic feet, exclusive of the cubic capacity of certain ballast tanks; ship control spaces such as bridge, condenser, anchor gear room, steering gear room; and galley and passenger cabins.

Net Tonnage - Equals gross tonnage minus deductions for space occupied by crew accommodations, machinery, navigation equipment and bunkers. It represents space available for cargo (and passengers).

Cubic Capacity - The inside measurement of a ship's cargo compartments or tanks usually expressed in barrels or cubic feet.

Barrel - The standard unit of liquid volume in the petroleum industry. It is equal to 42 U.S. gallons.

Draft - Distant in feet and inches from the bottom of the keel to the water line. Taken forward and aft by means of numbers, cut or marked on the stem piece or the stern frame. It is also read amidship at the Plimsoll mark to the sag on the hog of the vessel.

Outage - The depth of the space in a tank not occupied by oil. Same as ullage. It is measured from the flange of the ullage hole to the surface of the oil.

Fathom - A nautical measure equal to 6 feet.

Nautical Mile - The standard unit of measure for marine navigation composed of 6,080 feet.

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Definition of Common Carrier by Water, Intermodal Common Carrier by Water, Stevedore, and Marine Terminal Operator

A common carrier by water is one which holds itself out to furnish transportation service to the general public (as opposed to contract or proprietary carriers which provide such service for a limited number of shippers or for their own cargo).

An intermodal common carrier by water is a carrier which has the capability to physically transfer or interchange units of the vessel's cargo capacity, i.e.: cargo containers or trailers, with connecting motor or rail carriers without handling the contents of such units (when such capability does not exist, cargo is, for example, unloaded from rail boxcars or highway trailers at ocean terminals and then stowed to the vessel).

A stevedore is one who is responsible for loading and unloading a vessel in port and as such is the employer of longshoremen. The areas in the port at which a stevedore's activities take place are the vessels themselves and between the vessel and a place on the pier, dock or wharf called the "point of rest." The "point of rest" is an area on the pier, dock or wharf immediately adjacent to the vessel where cargo is received by the stevedore for loading to the vessel and also where cargo unloaded from the vessel is placed for delivery to the consignee for his agent.

A marine terminal operator is responsible for the safe berthing of the vessel and the delivery and receipt of its cargo and as such is responsible for all movement and handling of the cargo between any two points at the marine terminal, excepting between the point of rest and the vessel.

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Glossary of Shipping Terms

a.a.r. Against all risks
A1 First class condition
a.d. After date
Ad. val. According to value (ad valorem)
A.H. Aft hatch
A/S After sight
B.B. Below bridges; break bulk
bbl. Barrel
B/D Bar-draft
B.D.I. Both dates inclusive
B/E Bill of exchange
B/L Bill of lading
B.O. Bad order; buyer's option
B/P Bills payable
B.t. Berth terms
bu. Bushel
bx. Box
c.c. Current cost
C.E. consumption entry
c.f. Cubic foot
c.i. Cost and insurance
c/i Certificate of insurance
c.&f. Cost and freight
c.i.f. Cost, insurance and freight
c.i.f.&e. Cost, insurance, freight & exchange
C.O.D. Cash on delivery
C.O.S. Cash on shipment
C.P. Charter party
c.p.d. Charterers pay dues
C.R. Carrier's risk
c.t.l.o. Constructive total loss only
cwt. Hundredweight
d. A penny, or pence
D.A. Documents for acceptance
D/A Days after acceptance
d/a When prefixed to word "clause" vessel must discharge afloat
D.B.&B. Deals, battens and brands
D.D. Double deck, demand draft
D/D Date draft
d.d.o. Dispatch discharging only
d.l.o. Dispatch loading only
dm. Decimeter
Dm. Dekameter
D.P. Documents for payment
d.p. Direct port
D/S Days after sight
d.w. Deadweight (ton 2240 pounds)
d.w.c. Deadweight for cargo
E.A.O.N. Except as otherwise noted
E.&O.E. Errors and omissions excepted
E.B. Eastbound
E.E. Errors excepted
e.g. For example
Eng. England
est. Estimated
est. wt. Estimated weight
et al And others
F/A Free astray!
f.a.a. Free of all average
f.a.c. Fast as can
f.a.s. Free alongside ship
f.c.s. Free of capture and seizure
fcs. Francs
f.d. Free discharge
f.f.a. Free from average
f.i.a. Full interest admitted
f.i.o. Free in and out
f.i.w. Free in wagon
F.M. Fine measurement
fms. Fathoms
f.o.b. Free on board
f.o.r. Free on rail
f.o.w. First open water
f.p.a. Free of particular average
fr. Franc
f.r.&c.c. Free of riot and civil commotion
ft. Foot
gm. Gram
G.T. Gross ton
hf. Half
hhd. Hogshead
H.M.S. His (Her) Majesty's Ship
ht. Height
Inv. Invoice
kg. Kilogram
£ Pound Sterling (British, 20 shillings)
L.A. Letter of authority
L.&D. Loss and damage
L.&R. Lake and rail
lat. Latitude
L/C Letter of Credit
L.C.L. Less than carload
l.c.m. Least common multiple
ldg. Loading
ltge. Lighterage
L.W.M. Low water mark
Mdse. Merchandise
n.a.a. Not always afloat
N.B. Northbound
N.O.E. Not otherwise enumerated
N.O.H.P. Not otherwise herein provided
N.O.I.B.N. Not otherwise indicated by number; not otherwise indexed by name
N.O.S. Not otherwise specified
N.S.P.F. Not specifically provided for
O/A Open Account
O.&R. Ocean and rail
o/c Open charter
O/N Order notify
O.R. Owner's risk
O.R.B. Owner's risk of breakage
O.R.C. Owner's risk of chafing
O.R.D. Owner's risk of damage
O.R. Det. Owner's risk of deterioration
O.R.F. Owner's risk of fire (or freezing)
O.R.L. Owner's risk of leakage
O.R.S. Owner's risk of shifting
O.R.W. Owner's risk of becoming wet
O.S.&D. Over, short and damage
o.t. On truck or railway
P.A. Particular average
P.D. Per diem
p.p. Picked ports
Ppd. Prepaid
P.W. Packed weight
R.&O. Rail and ocean
R.C.&L. Rail, canal and lake
Rafg. Refrigerating, refrigeration
R.I.T. Refining in transit
R.&L. Rail and lake
Rs. Rupees (currency of India)
S.B. Southbound
S.C.&S. Strapped, corded and sealed
S.D. Single Deck
S/D Sight draft
S.D.D. Store door delivery
sdg. Siding
S.I.T. Stopping in transit
sld. Sailed
S.L.&C. Shipper's load and count
S.L.&T. Shipper's load and tally
S.O. Ship's option, shipping order, seller's option
s.p.d. Steamer pays dues
S.S. Shipside
S/S Steamship
Stds. Standards
Str. Streamer
S.U.C.L. Set up carload
S.U.L.C.L. Set up in less than carload
s.v. Sailing vessel
t.l.o. Total loss only
U.K.f.o. United Kingdom for orders
u/w Underwriter
val. Value
Ves. Vessel
W.&F. Water and feed
W.&I. Weighing and inspection
W.&R. Water and rail
W.B. Westbound
W/B Waybill
w.b. Water ballast
w.w. Weather working
w.p.a. With particular average
Y/A York/Antwerp Rules

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Type of Freight Rates in Domestic Trades

A rate is that price assessed by the carrier for its transportation services; rates and attendant conditions, rules and regulations are published in a tariff, i.e.: the carrier's price list.

Rates can be classified as local, proportional, combination, single factor, joint through, joint through intermodal, and through intermodal rates.

A local rate is one applying between two points on a route served by one carrier, i.e.: from Honolulu to Oakland, California via XYZ carrier.

A proportional rate is identical to a local rate except that it is lower and applies only when the shipment is interchanged with a connecting carrier for ultimate delivery to a more distant point, i.e.: from Anchorage to Seattle via XYZ carriers and consigned beyond to Chicago via rail. (Sometimes called overland or OCP rates).

A combination rate is the sum of the individual rates assessed by those carriers providing through service from origin to destination, i.e.: the sum of XYZ carrier's rate (local or proportional) from San Juan to Jacksonville and the rail carrier's rate (local or proportional) from Jacksonville to St. Louis.

A single factor rate is a type of intermodal local or proportional rate that includes motor carrier pick-up or delivery service at points within prescribed port areas plus long-haul ocean carrier service. The ocean carrier, which files such rates solely on its own behalf, holds itself out to the public to perform the total service. Such ocean carrier employs an I.C.C. certificated motor carrier to physically perform the port area pick-up or delivery service, and compensates the motor carrier for such service at the motor carrier's published I.C.C. tariff rates.

A joint through rate is one in which two or more carriers participate, ordinarily carriers of different modes, i.e.: water, rail or highway. As opposed to single factor rates where the ocean carrier makes a single and complete holding-out to the public, those carriers participating in a joint through rate are jointly responsible for performance of the service offered to the public. The participating carriers share the revenue generated by the joint through rate in accordance with a private agreement consumated among themselves.

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A contract rate is one issued by a carrier to transport goods for one or more concerns and specifically designed to cover type of service, prescribed routes, special equipment, etc.

A joint through intermodal rate is one under which the ocean and inland carrier jointly hold themselves out to perform the serice.

A through intermodal rate is one under which an ocean carrier holds itself out to perform the entire through service, part of which is actually being performed by an inland carrier.

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Common Metric Equivalents

1 inch	25.4000 millimeters
1 foot	0.3048 meter
1 yard	0.9144 meter
1 mile	1.6093 kilometers
1 square inch	6.4516 sq. centimeters
1 square foot	0.0929 square meter
1 square yard	0.8361 square meter

1 cubic inch	16.3871 cu. centimeters
1 cubic foot	0.0283 cubic meter
1 cubic yard	0.7646 cubic meter
1 quart	0.9464 liter
1 gallon	0.0038 cubic meter
1 ounce	28.3495 grams
1 pound	0.4536 kilogram
1 horsepower	0.7457 kilowatt

1 millimeter	0.0394 inch
1 meter	3.2808 feet
1 meter	1.0936 yards
1 kilometer	0.6214 mile
1 sq. centimeter	0.1550 square inch
1 square meter	10.7639 square feet
1 square meter	1.1960 square yards
1 cu. centimeter	0.0610 cubic inch

1 cubic meter	35.3147 cubic feet
1 cubic meter	1.3079 cubic yards
1 liter	1.0567 quarts
1 cubic meter	264.2860 gallons
1 gram	0.0353 ounce
1 kilogram	2.2046 pounds
1 kilowatt	1.3410 horsepower

"Metric Conversion Act of 1975" 94th Congress

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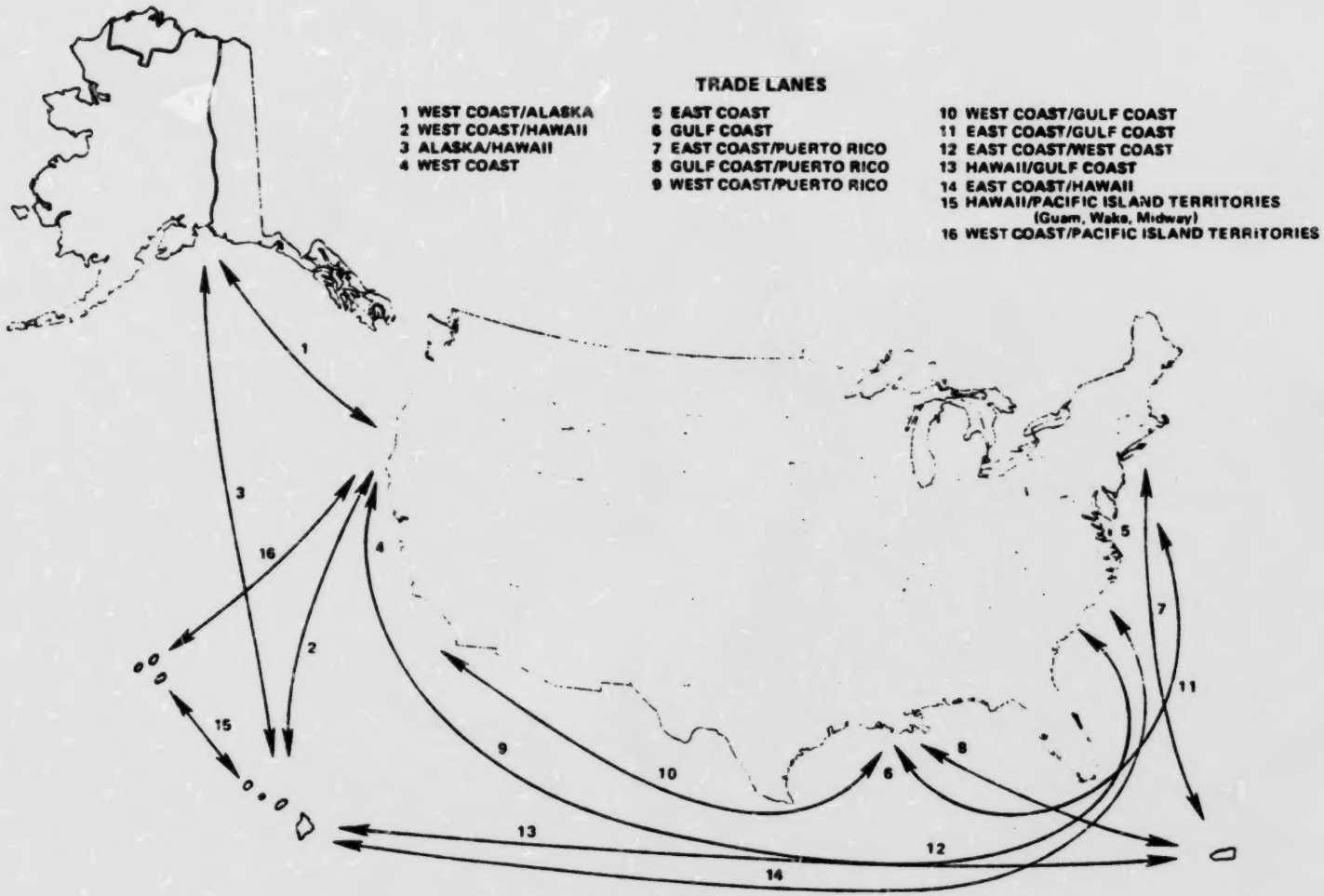

DOMESTIC WATERBORNE TRADE LANES

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COMMERCIALLY NAVIGABLE WATERWAYS OF THE UNITED STATES

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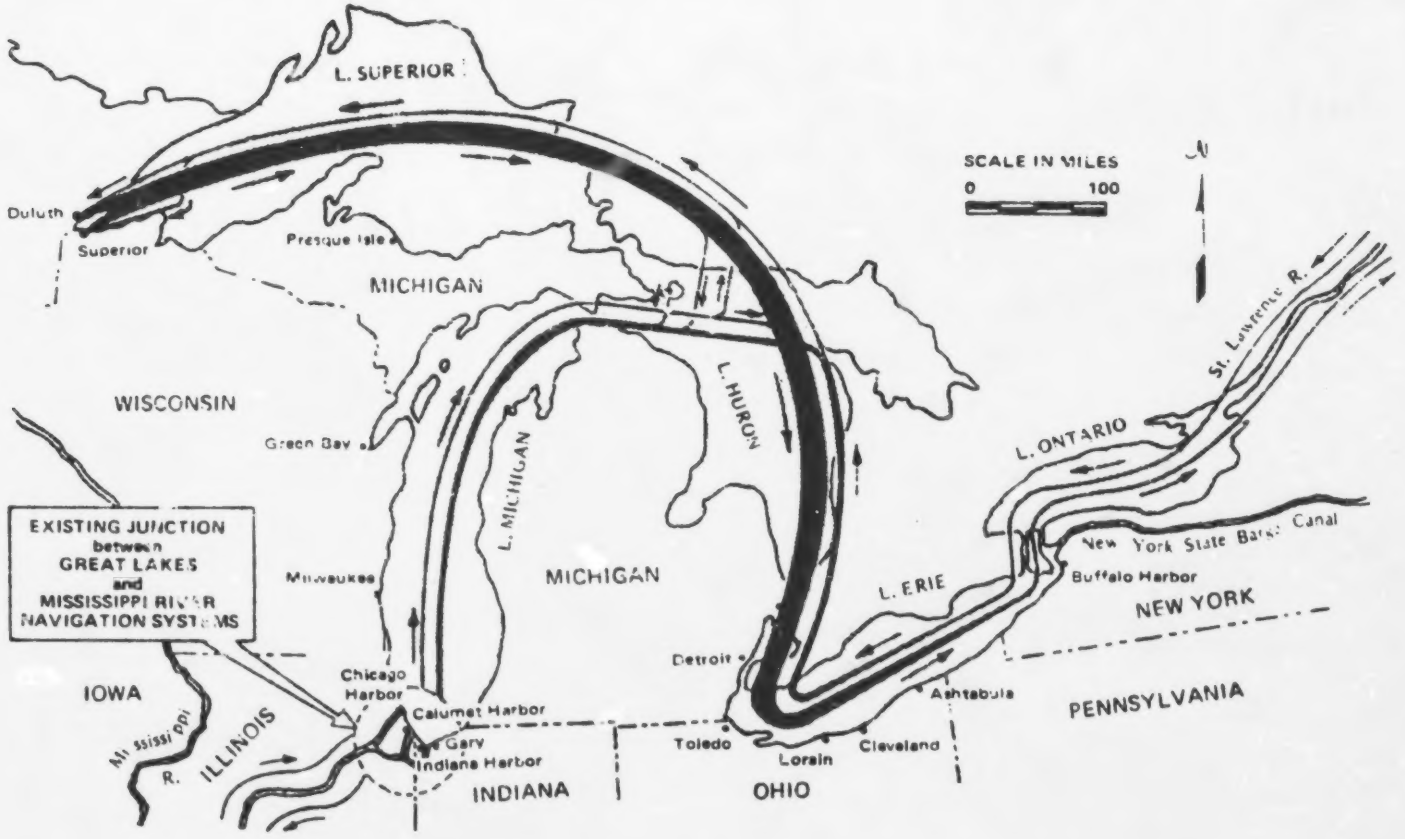

GREAT LAKES NAVIGATION SYSTEM DOMESTIC FREIGHT TRANSPORT

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PART ONE

PROFILE

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INTERCITY FREIGHT BY MODE

(Thousands of Short Tons and Percentage by Mode)

	1978		1979		1980		1981		1982	
Domestic Waterborne	1,092,765	(19%)	1,087,613	(18%)	1,097,459	(20%)	1,068,808	(20%)	970,105	(19%)
Rail	1,481,000	(25%)	1,600,000	(27%)	1,589,000	(28%)	1,547,000	(28%)	1,351,000	(27%)
Truck	2,260,000	(39%)	2,240,000	(38%)	2,007,000	(36%)	1,964,000	(36%)	1,791,000	(36%)
Pipeline	982,000	(17%)	979,000	(17%)	921,000	(16%)	886,000	(16%)	897,000	(18%)
Air	3,900	(--%)	3,700	(--%)	4,000	(--%)	3,500	(--%)	3,300	(--%)
Total	5,819,665	(100%)	5,910,313	(100%)	5,618,459	(100%)	5,469,308	(100%)	5,012,405	(100%)

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U.S. DOMESTIC AND FOREIGN WATERBORNE COMMERCE

(THOUSANDS OF SHORT TONS AND PERCENTAGE OF TOTAL)

	1978	1979	1980	1981	1982
Domestic	1,092,765 (54%)	1,087,613 (52%)	1,097,459 (55%)	1,068,808 (55%)	970,105 (54%)
Foreign	946,058 (46%)	993,445 (48%)	921,404 (45%)	887,102 (45%)	819,731 (46%)
Total	2,038,058 (100%)	2,081,058 (100%)	2,018,863 (100%)	1,955,910 (100%)	1,789,836 (100%)

U.S. DOMESTIC WATERBORNE COMMERCE BY TRADE SEGMENT

(Thousands of Short Tons and Percentage by Trade)

	1978	1979	1980	1981	1982
Domestic Oceans	326,650 (30%)	313,960 (29%)	370,360 (34%)	336,273 (32%)	324,947 (33%)
Great Lakes	150,774 (14%)	151,209 (14%)	122,922 (11%)	121,905 (11%)	76,994 (8%)
Inland Waterways	615,341 (56%)	622,444 (57%)	604,177 (55%)	610,630 (57%)	568,164 (59%)
Total	1,092,765 (100%)	1,087,613 (100%)	1,097,459 (100%)	1,068,808 (100%)	970,105 (100%)

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U.S. DOMESTIC WATERBORNE COMMERCE BY VESSEL TYPE

(Thousands of Short Tons and Percentage by Vessel Type)

	1978	1979	1980	1981	1982
DOMESTIC OCEAN					
Self-Propelled Dry Cargo Vessel	12,090 (4%)	11,236 (4%)	9,887 (3%)	10,213 (3%)	10,267 (3%)
Self-Propelled Tanker Vessel	239,610 (73%)	234,927 (75%)	279,476 (76%)	245,717 (73%)	237,842 (73%)
Non-Self-Propelled Dry Cargo Barge	24,891 (8%)	22,078 (7%)	31,280 (8%)	23,901 (7%)	20,047 (6%)
Non-Self-Propelled Tank Barge	50,059 (15%)	45,719 (14%)	49,717 (13%)	56,442 (17%)	56,791 (18%)
TOTAL	326,650(100%)	313,960(100%)	370,360(100%)	336,273(100%)	324,947(100%)
GREAT LAKES					
Self-Propelled Dry Cargo Vessel	142,677 (95%)	143,162 (95%)	114,305 (93%)	115,939 (95%)	73,099 (95%)
Self-Propelled Tanker Vessel	2,842 (2%)	2,961 (2%)	2,508 (2%)	1,446 (1%)	1,187 (2%)
Non-Self-Propelled Dry Cargo Barge	2,284 (1%)	2,130 (1%)	3,245 (3%)	1,946 (2%)	891 (1%)
Non-Self-Propelled Tank Barge	2,971 (2%)	2,956 (2%)	2,864 (2%)	2,574 (2%)	1,817 (2%)
TOTAL	150,774(100%)	151,209(100%)	122,922(100%)	121,905(100%)	76,994(100%)
INLAND WATERWAYS					
Self-Propelled Dry Cargo Vessel	8,881 (1%)	8,260 (1%)	6,273 (1%)	7,930 (1%)	6,036 (1%)
Self-Propelled Tanker Vessel	14,070 (2%)	16,487 (3%)	20,425 (4%)	17,661 (3%)	13,340 (2%)
Non-Self-Propelled Dry Cargo Barge	324,851 (53%)	343,967 (55%)	340,315 (56%)	351,273 (58%)	335,357 (59%)
Non-Self-Propelled Tank Barge	267,539 (44%)	253,730 (41%)	237,164 (39%)	233,766 (38%)	213,431 (38%)
TOTAL	615,341(100%)	622,444(100%)	604,177(100%)	610,630(100%)	568,164(100%)
GRAND TOTAL					
Self-Propelled Dry Cargo Vessel	163,648 (15%)	162,658 (15%)	130,465 (12%)	134,082 (13%)	89,402 (9%)
Self-Propelled Tanker Vessel	256,522 (24%)	254,375 (23%)	302,409 (28%)	264,824 (25%)	252,369 (26%)
Non-Self-Propelled Dry Cargo Barge	352,026 (32%)	368,175 (34%)	374,840 (34%)	377,120 (35%)	356,295 (37%)
Non-Self-Propelled Tank Barge	320,569 (29%)	302,405 (28%)	289,745 (26%)	292,782 (27%)	272,039 (28%)
TOTAL	1,092,765(100%)	1,087,613(100%)	1,097,459(100%)	1,068,808(100%)	970,105(100%)

U.S. FLAG FLEET, 1977-1982

NUMBER OF VESSELS AND CAPACITY IN THOUSANDS OF SHORT TONS[1/]

	1977		1978		1979		1980		1982[3/]	
	VESSELS	CAPACITY	VESSELS	CAPACITY	VESSELS	CAPACITY	VESSELS	CAPACITY	VESSELS	CAPACITY
OCEAN[2/]										
SELF-PROPELLED DRY CARGO VESSEL	825	5,063	829	4,980	810	4,562	813	4,797	840	4,624
SELF-PROPELLED TANKER VESSEL	297	10,534	307	12,053	307	13,225	318	15,840	323	18,224
TUGS AND OTHER WORK BOATS	1,703	----	1,692	----	1,723	----	1,730	----	1,589	----
NON-SELF-PROPELLED DRY CARGO BARGE	5,376	4,857	4,040	4,387	4,165	4,656	4,631	4,890	4,892	5,019
NON-SELF-PROPELLED TANK BARGE	609	2,411	622	2,596	637	3,387	688	3,173	698	3,290
TOTAL	8,810	22,865	7,490	24,016	7,642	25,830	8,180	28,700	8,342	31,157
GREAT LAKES										
SELF-PROPELLED DRY CARGO VESSEL	303	2,951	295	2,992	281	3,082	265	3,001	261	3,097
SELF-PROPELLED TANKER VESSEL	10	45	12	57	12	55	12	55	10	55
TUGS AND OTHER WORK BOATS	163	----	158	----	159	----	158	----	140	----
NON-SELF-PROPELLED DRY CARGO BARGE	193	312	188	302	213	326	209	336	256	421
NON-SELF-PROPELLED TANK BARGE	56	110	74	154	31	63	33	68	28	55
TOTAL	725	3,418	727	3,505	696	3,526	677	3,460	695	3,628
INLAND WATERWAYS										
SELF-PROPELLED DRY CARGO VESSEL	710	133	779	171	829	181	958	213	1,226	278
SELF-PROPELLED TANKER VESSEL	----	----	----	----	----	----	----	----	----	----
TUGS AND OTHER WORK BOATS	2,615	----	2,633	----	2,723	----	2,946	----	3,161	----
NON-SELF-PROPELLED DRY CARGO BARGE	19,368	24,286	19,809	25,149	21,042	27,110	22,586	29,261	24,331	32,591
NON-SELF-PROPELLED TANK BARGE	3,105	6,999	3,250	6,717	3,332	6,884	3,445	7,147	4,183	8,557
TOTAL	25,798	31,418	26,471	32,037	27,926	34,175	29,935	36,621	32,901	41,426
GRAND TOTALS										
SELF-PROPELLED DRY CARGO VESSEL	1,838	8,147	2,938	8,143	1,920	7,825	2,036	8,011	2,327	7,999
SELF-PROPELLED TANKER VESSEL	307	10,579	319	12,110	319	13,280	330	15,895	333	18,279
TUGS AND OTHER WORK BOATS	4,481	----	4,483	----	4,605	----	4,834	----	4,890	----
NON-SELF-PROPELLED DRY CARGO BARGE	24,937	29,455	24,037	29,838	25,420	32,092	27,426	34,487	29,479	38,031
NON-SELF-PROPELLED TANK BARGE	3,770	9,520	3,946	9,467	4,000	10,334	4,166	10,388	4,909	11,902
TOTAL	35,333	57,701	35,723	59,558	36,264	63,461	38,792	68,781	41,938	76,211

1/ Operating or available for operation on 31 December 1980
2/ Includes vessels in both domestic and foreign trade
3/ Operating or available for operation on 1 May 1982

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PRINCIPAL COMMODITIES CARRIED IN DOMESTIC WATERBORNE COMMERCE

(Thousands of Short Tons)

	1978		1979		1980		1981		1982	
Coal and Lignite	143,752	(13%)	160,486	(15%)	164,119	(15%)	171,466	(16%)	157,684	(16%)
Gasoline	94,709	(9%)	83,509	(8%)	80,968	(7%)	76,313	(7%)	75,096	(8%)
Crude Petroleum	145,987	(13%)	148,853	(14%)	174,191	(16%)	170,935	(16%)	178,409	(18%)
Distillate Fuel	83,766	(8%)	79,500	(7%)	72,098	(7%)	64,848	(6%)	62,105	(6%)
Sand, Gravel & Crushed Rock	71,501	(6%)	69,926	(6%)	60,767	(5%)	49,404	(5%)	46,980	(5%)
Iron Ore & Concentrates	80,851	(7%)	83,251	(8%)	64,853	(6%)	68,718	(7%)	37,119	(4%)
Residual Fuel	136,001	(12%)	136,731	(11%)	141,304	(13%)	141,341	(13%)	113,351	(12%)
Limestone Flux and Calcareous Stone	30,930	(3%)	28,583	(3%)	23,868	(2%)	21,733	(2%)	16,823	(2%)
Marine Shells	10,320	(1%)	8,802	(1%)	9,241	(1%)	8,030	(1%)	6,230	(1%)
Rafted Logs	17,192	(2%)	17,041	(2%)	16,767	(2%)	18,192	(2%)	12,821	(1%)
Corn	25,925	(3%)	28,391	(3%)	30,858	(3%)	31,701	(3%)	33,861	(3%)
Jet Fuel	11,824	(1%)	11,864	(1%)	11,607	(1%)	11,873	(1%)	13,078	(1%)
Building Cement	9,343	(1%)	9,082	(1%)	8,453	(1%)	8,787	(1%)	8,493	(1%)
Basic Chemicals	19,616	(2%)	22,968	(2%)	22,657	(2%)	22,567	(2%)	18,801	(2%)
Soybeans	14,256	(1%)	13,265	(1%)	16,121	(1%)	15,378	(1%)	19,808	(2%)
Waste & Scrap, NEC	16,240	(2%)	14,149	(1%)	15,855	(1%)	19,141	(2%)	22,176	(2%)
Wheat	11,790	(1%)	11,583	(1%)	14,337	(1%)	18,234	(2%)	17,825	(2%)
Phosphate Rock	9,003	(1%)	8,258	(1%)	9,481	(1%)	8,367	(1%)	6,958	(1%) 1/
Sulphur, Liquid	8,560	(1%)	9,353	(1%)	9,749	(1%)	8,841	(1%)	5,897	(1%)
All Other Commodities	151,199	(13%)	142,018	(13%)	150,165	(14%)	118,587	(11%)	116,590	(12%)
Total All Commodities	1,092,765	(100%)	1,087,613	(100%)	1,097,459	(100%)	1,054,456	(100%)	970,105	(100%)

1/ Asphalt, Tar, and Pitches - 1982
Phosphate Rock - 1978-1981

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PRINCIPAL COMMODITIES CARRIED IN DOMESTIC OCEAN
WATERBORNE COMMERCE BY VESSEL TYPE
(THOUSANDS OF SHORT TONS AND PERCENTAGE OF TOTAL)

1978			1979		
SELF-PROPELLED DRY CARGO VESSEL			SELF-PROPELLED DRY CARGO VESSEL		
MISCELLANEOUS SHIPMENTS, NEC	2,782	(23%)	MISCELLANEOUS SHIPMENTS, NEC	2,763	(25%)
SUGAR	797	(07%)	SUGAR	859	(08%)
FRUT&FRUT&VEG JUCES-CAN,PRESV	640	(05%)	FRUT&FRUT&VEG JUCES-CAN,PRESV	619	(06%)
RESIDUAL FUEL OIL	514	(04%)	BASIC CHEMICALS + PRODTS, NEC	424	(04%)
ALCOHOLIC BEVERAGES	476	(04%)	ALCOHOLIC BEVERAGES	420	(04%)
BASIC CHEMICALS + PRODTS, NEC	424	(04%)	MISCELLANEOUS FOOD PRODUCTS	386	(03%)
ALL OTHER COMMODITIES	6,436	(53%)	ALL OTHER COMMODITIES	5,762	(51%)
TOTAL	12,069		TOTAL	11,233	
SELF-PROPELLED TANKER VESSEL			SELF-PROPELLED TANKER VESSEL		
CRUDE PETROLEUM	49,682	(28%)	CRUDE PETROLEUM	84,342	(39%)
RESIDUAL FUEL OIL	37,569	(21%)	RESIDUAL FUEL OIL	45,077	(21%)
GASOLINE, INC ADDITIVES	35,482	(20%)	DISTILLATE FUEL OIL	32,516	(15%)
DISTILLATE FUEL OIL	32,166	(18%)	GASOLINE, INC ADDITIVES	31,231	(14%)
JET FUEL	5,400	(03%)	JET FUEL	5,548	(03%)
SULPHUR,LIQUID	4,279	(02%)	SULPHUR,LIQUID	4,370	(02%)
ALL OTHER COMMODITIES	16,024	(09%)	ALL OTHER COMMODITIES	15,554	(07%)
TOTAL	180,602		TOTAL	218,638	
NON-SELF-PROPELLED DRY CARGO BARGE			NON-SELF-PROPELLED DRY CARGO BARGE		
PHOSPHATE ROCK	7,547	(30%)	PHOSPHATE ROCK	6,928	(31%)
SAND,GRAVEL AND CRUSHED ROCK	5,256	(21%)	SAND,GRAVEL AND CRUSHED ROCK	3,557	(16%)
COAL AND LIGNITE	3,251	(13%)	COAL AND LIGNITE	2,706	(12%)
BUILDING CEMENT	1,637	(07%)	BUILDING CEMENT	1,495	(07%)
MOTOR VEHICALS,PARTS + EQUIPMT	987	(04%)	LUMBER	1,003	(05%)
LUMBER	977	(04%)	FABR METL PROD EXC ORD MACH	624	(03%)
ALL OTHER COMMODITIES	5,220	(21%)	ALL OTHER COMMODITIES	5,754	(26%)
TOTAL	24,875		TOTAL	22,067	
NON-SELF-PROPELLED TANK BARGE			NON-SELF-PROPELLED TANK BARGE		
GASOLINE, INC ADDITIVES	19,674	(39%)	GASOLINE, INC ADDITIVES	16,744	(37%)
RESIDUAL FUEL OIL	12,512	(25%)	RESIDUAL FUEL OIL	11,058	(24%)
DISTILLATE FUEL OIL	10,394	(21%)	DISTILLATE FUEL OIL	9,661	(21%)
ASPHALT,TAR, AND PITCHES	2,038	(04%)	ASPHALT,TAR, AND PITCHES	1,999	(04%)
JET FUEL	1,126	(02%)	JET FUEL	1,397	(03%)
SODIUM HYDROXIDE-CAUSTIC SODA	782	(02%)	NAPHTHA,MINERAL,SPIRITS,SOLVN	1,196	(03%)
ALL OTHER COMMODITIES	3,482	(07%)	ALL OTHER COMMODITIES	3,664	(08%)
TOTAL	50,008		TOTAL	45,719	

NOTE: TOTALS MAY NOT EQUAL 100 PERCENT BECAUSE OF STATISTICAL ROUNDING

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PRINCIPAL COMMODITIES CARRIED IN DOMESTIC OCEAN
WATERBORNE COMMERCE BY VESSEL TYPE
(THOUSANDS OF SHORT TONS AND PERCENTAGE OF TOTAL)

	1980			1981	
SELF-PROPELLED DRY CARGO VESSEL			SELF-PROPELLED DRY CARGO VESSEL		
MISCELLANEOUS SHIPMENTS, NEC	2,443	(25%)	RESIDUAL FUEL OIL	2,614	(17%)
SUGAR	850	(09%)	MISCELLANEOUS SHIPMENTS, NEC	2,580	(17%)
COAL AND LIGNITE	558	(06%)	DISTILLATE FUEL OIL	1,335	(09%)
FRUT&FRUT&VEG JUCES-CAN,PRESV	451	(05%)	SUGAR	979	(06%)
ALCOHOLIC BEVERAGES	334	(03%)	GASOLINE, INC ADDITIVES	759	(05%)
RESIDUAL FUEL OIL	299	(03%)	FRUT&FRUT&VEG JUCES-CAN,PRESV	560	(04%)
ALL OTHER COMMODITIES	4,944	(50%)	ALL OTHER COMMODITIES	6,373	(42%)
TOTAL	9,879		TOTAL	15,200	
SELF-PROPELLED TANKER VESSEL			SELF-PROPELLED TANKER VESSEL		
CRUDE PETROLEUM	117,554	(48%)	CRUDE PETROLEUM	131,187	(57%)
RESIDUAL FUEL OIL	48,625	(20%)	RESIDUAL FUEL OIL	41,762	(18%)
GASOLINE, INC ADDITIVES	26,540	(11%)	GASOLINE, INC ADDITIVES	19,299	(08%)
DISTILLATE FUEL OIL	23,921	(10%)	DISTILLATE FUEL OIL	17,221	(07%)
SULPHUR,LIQUID	5,827	(02%)	SULPHUR,LIQUID	4,271	(02%)
BASIC CHEMICALS + PRODTS, NEC	4,279	(02%)	BASIC CHEMICALS + PRODTS, NEC	3,778	(02%)
ALL OTHER COMMODITIES	18,170	(07%)	ALL OTHER COMMODITIES	12,955	(06%)
TOTAL	244,916		TOTAL	230,473	
NON-SELF-PROPELLED DRY CARGO BARGE			NON-SELF-PROPELLED DRY CARGO BARGE		
PHOSPHATE ROCK	10,955	(35%)	PHOSPHATE ROCK	7,428	(31%)
SAND,GRAVEL AND CRUSHED ROCK	4,069	(13%)	COAL AND LIGNITE	3,623	(15%)
COAL AND LIGNITE	3,379	(11%)	SAND,GRAVEL AND CRUSHED ROCK	3,131	(13%)
SUGAR	1,861	(06%)	BUILDING CEMENT	1,789	(07%)
BUILDING CEMENT	1,737	(06%)	FABR METL PROD EXC ORD MACH	961	(04%)
FABR METL PROD EXC ORD MACH	890	(03%)	LUMBER	712	(03%)
ALL OTHER COMMODITIES	8,343	(27%)	ALL OTHER COMMODITIES	6,254	(26%)
TOTAL	31,234		TOTAL	23,898	
NON-SELF-PROPELLED TANK BARGE			NON-SELF-PROPELLED TANK BARGE		
GASOLINE, INC ADDITIVES	16,156	(32%)	GASOLINE, INC ADDITIVES	21,834	(39%)
RESIDUAL FUEL OIL	13,655	(27%)	RESIDUAL FUEL OIL	13,608	(24%)
DISTILLATE FUEL OIL	9,561	(19%)	DISTILLATE FUEL OIL	10,927	(19%)
PETROLEUM AND COAL PRODCTS NEC	1,908	(04%)	JET FUEL	3,015	(05%)
JET FUEL	1,762	(04%)	ASPHALT,TAR, AND PITCHES	1,609	(03%)
ASPHALT,TAR, AND PITCHES	1,649	(03%)	NAPHTHA,MINERAL,SPIRITS,SOLVN	965	(02%)
ALL OTHER COMMODITIES	5,026	(10%)	ALL OTHER COMMODITIES	4,531	(08%)
TOTAL	49,717		TOTAL	56,489	

NOTE: TOTALS MAY NOT EQUAL 100 PERCENT BECAUSE OF STATISTICAL ROUNDING

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PRINCIPAL COMMODITIES CARRIED IN DOMESTIC OCEAN
WATERBORNE COMMERCE BY VESSEL TYPE
(THOUSANDS OF SHORT TONS AND PERCENTAGE OF TOTAL)

	1982	
SELF-PROPELLED DRY CARGO VESSEL		
MISCELLANEOUS SHIPMENTS, NEC	3,331	(32%)
SUGAR	802	(08%)
FRUT&FRUT&VEG JUCES-CAN,PRESV	517	(05%)
BASIC CHEMICALS + PRODTS, NEC	482	(05%)
ALCOHOLIC BEVERAGES	424	(04%)
MOLASSES	342	(03%)
ALL OTHER COMMODITIES	4,618	(44%)
TOTAL	10,516	
SELF-PROPELLED TANKER VESSEL		
CRUDE PETROLEUM	140,110	(62%)
RESIDUAL FUEL OIL	31,092	(14%)
DISTILLATE FUEL OIL	18,730	(08%)
GASOLINE, INC ADDITIVES	18,023	(08%)
JET FUEL	4,708	(02%)
BASIC CHEMICALS + PRODTS, NEC	3,225	(01%)
ALL OTHER COMMODITIES	10,341	(05%)
TOTAL	226,229	
NON-SELF-PROPELLED DRY CARGO BARGE		
PHOSPHATE ROCK	3,973	(20%)
SAND,GRAVEL AND CRUSHED ROCK	3,501	(17%)
COAL AND LIGNITE	2,921	(15%)
BUILDING CEMENT	1,624	(08%)
FABR METL PROD EXC ORD MACH	1,093	(05%)
SUGAR	735	(04%)
ALL OTHER COMMODITIES	6,203	(31%)
TOTAL	20,050	
NON-SELF-PROPELLED TANK BARGE		
GASOLINE, INC ADDITIVES	24,143	(42%)
DISTILLATE FUEL OIL	11,874	(21%)
RESIDUAL FUEL OIL	11,037	(19%)
JET FUEL	3,312	(06%)
ASPHALT,TAR, AND PITCHES	2,064	(04%)
NAPHTHA,MINERAL,SPIRITS,SOLVN	1,034	(02%)
ALL OTHER COMMODITIES	3,550	(06%)
TOTAL	57,014	

NOTE: TOTALS MAY NOT EQUAL 100 PERCENT BECAUSE OF STATISTICAL ROUNDING

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CRUDE PETROLEUM AND PETROLEUM PRODUCTS TRANSPORTED IN THE UNITED STATES

BY METHOD OF TRANSPORTATION

(MILLIONS OF SHORT TONS AND PERCENTAGE BY MODE)

	1978	1979	1980	1981	1982
DOMESTIC WATERBORNE	502.8 (23.9%)	491.5 (23.4%)	509.3 (25.6%)	490.0 (26.8%)	465.2 (25.5%)
RAILROADS	25.6 (1.2%)	25.4 (1.2%)	23.4 (1.2%)	22.8 (1.2%)	23.1 (1.3%)
MOTOR CARRIERS	595.3 (28.3%)	601.1 (28.7%)	538.6 (27.0%)	493.0 (26.9%)	436.4 (24.0%)
PIPELINES	981.9 (46.6%)	978.0 (46.7%)	920.5 (46.2%)	826.0 (45.1%)	897.0 (49.2%)
TOTAL	2,105.6 (100%)	2,096.0 (100%)	1,991.8 (100%)	1,831.8 (100%)	1,821.7 (100%)

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CRUDE OIL TRANSPORTATION IN THE UNITED STATES

BY METHOD OF TRANSPORTATION

(MILLIONS OF SHORT TONS AND PERCENTAGE BY MODE)

	1978	1979	1980	1981	1982
DOMESTIC WATERBORNE	146.0 (21.3%)	148.8 (21.6%)	174.2 (24.8%)	170.9 (28.1%)	178.4 (28.0%)
RAILROADS	2.0 (.3%)	1.4 (.2%)	1.4 (.2%)	1.2 (.2%)	1.1 (.2%)
MOTOR CARRIERS	89.5 (13.1%)	103.0 (14.9%)	114.2 (16.2%)	97.5 (16.0%)	40.0 (6.3%)
PIPELINES	447.5 (65.3%)	437.1 (63.3%)	412.8 (58.8%)	339.5 (55.7%)	417.0 (65.5%)
TOTAL	685.0 (100%)	690.3 (100%)	702.6 (100%)	609.1 (100%)	636.5 (100%)

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REFINED PETROLEUM PRODUCTS TRANSPORTED IN THE UNITED STATES

BY METHOD OF TRANSPORTATION

(MILLIONS OF SHORT TONS AND PERCENTAGE BY MODE)

	1978	1979	1980	1981	1982
DOMESTIC WATERBORNE	356.8 (25.1%)	342.7 (24.4%)	335.1 (26.0%)	319.1 (26.1%)	290.8 (24.6%)
RAILROADS	23.6 (1.7%)	23.9 (1.7%)	22.0 (1.7%)	21.6 (1.8%)	22.1 (1.9%)
MOTOR CARRIERS	505.7 (35.6%)	498.1 (35.4%)	424.4 (32.9%)	395.5 (32.3%)	390.2 (33.0%)
PIPELINES	534.3 (37.6%)	540.9 (38.5%)	507.7 (39.4%)	486.5 (39.8%)	480.0 (40.5%)
TOTAL	1,420.4 (100%)	1,405.6 (100%)	1,289.2 (100%)	1,222.7 (100%)	1,183.1 (100%)

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FREIGHT REVENUE OF U.S. DOMESTIC REGULATED CARRIERS

(IN MILLION OF DOLLARS)

	1978		1979		1980		1981		1982	
DOMESTIC WATERWAYS	854	(1%)	834	(1%)	917	(1%)	1,009	(1%)	960	(1%)
RAIL	21,718	(33%)	24,385	(33%)	27,248	(34%)	30,082	(34%)	26,652	(32%)
TRUCK	36,500	(56%)	41,200	(56%)	43,000	(54%)	47,100	(53%)	44,100	(54%)
PIPELINE	4,907	(7%)	5,585	(8%)	6,356	(8%)	6,678	(8%)	7,140	(9%)
AIR	1,729	(3%)	1,846	(2%)	2,723	(3%)	3,139	(4%)	3,246	(4%)
TOTAL	65,708	(100%)	73,850	(100%)	80,244	(100%)	88,008	(100%)	82,098	(100%)
GROSS NATION PRODUCT (BILLIONS OF DOLLARS)	2,156.1		2,413.9		2,631.7		2,954.1		3,073.0	
PERCENT OF CARRIERS REVENUE TO GNP	3.0%		3.0%		3.0%		3.0%		2.7%	

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U.S. DOMESTIC AND FOREIGN FREIGHT CHARGES

(IN MILLIONS OF DOLLARS)

	1978	1979	1980	1981	1982
DOMESTIC WATERBORNE	5,076 (3%)	5,515 (3%)	6,637 (3%)	7,137 (3%)	6,864 (3%)
FOREIGN WATERBORNE	7,303 (5%)	7,892 (5%)	8,279 (4%)	9,119 (4%)	7,985 (3%)
RAIL	21,896 (13%)	24,763 (13%)	27,702 (13%)	30,498 (13%)	27,106 (12%)
HIGHWAY	128,621 (75%)	142,444 (75%)	154,049 (75%)	174,586 (75%)	183,355 (77%)
PIPELINE	5,452 (3%)	6,206 (3%)	7,062 (3%)	7,420 (3%)	7,933 (3%)
AIR-DOMESTIC	1,729 (1%)	1,846 (1%)	2,723 (1%)	3,139 (1%)	3,246 (1%)
INTERNATIONAL	925 (---)	991 (---)	1,211 (1%)	1,175 (1%)	1,192 (1%)
TOTAL	171,002 (100$)	189,657 (100%)	207,663 (100%)	233,074 (100%)	237,681 (100%)
GROSS NATIONAL PRODUCT (BILLIONS OF DOLLARS)	2,156.1	2,413.9	2,631.7	2,954.1	3,073.0
GRAND TOTAL % OF GNP	7.9%	7.9%	7.9%	7.9%	7.7%

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EMPLOYMENT IN TRANSPORTATION INDUSTRIES

(IN THOUSANDS)

	1978	1979	1980	1981	1982
WATERBORNE	209 (8.7%)	216 (8.7%)	213 (8.8%)	203 (8.7%)	203 (9.1%)
RAIL	539 (22.6%)	556 (22.4%)	532 (22.1%)	496 (21.2%)	430 (19.3%)
TRUCK	1,212 (50.8%)	1,249 (50.4%)	1,189 (49.4%)	1,168 (49.8%)	1,128 (50.6%)
PIPELINES (OIL)	20 (0.8%)	20 (0.8%)	21 (0.9%)	22 (0.9%)	22 (1.0%)
AIR	408 (17.1%)	438 (17.7%)	453 (18.8%)	454 (19.4%)	445 (20.0%)
TOTAL	2,388 (100%)	2,479 (100%)	2,408 (100%)	2,343 (100%)	2,228 (100%)
TOTAL CIVILIAN LABOR FORCE	94,373	96,945	97,300	108,670	110,204
PERCENT TRANSPORTATION	2.5	2.6	2.5	2.2	2.0

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PART TWO

DOMESTIC OCEAN TRADES

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U.S. DOMESTIC OCEANBORNE COMMERCE BY SECTOR AND TYPE OF VESSEL
(THOUSANDS OF SHORT TONS AND PERCENTAGE OF TOTAL)

	1978	1979	1980	1981	1982
COASTWISE					
SELF-PROPELLED DRY CARGO VESSEL	1,263 (01%)	1,043 (01%)	1,206 (01%)	603 (--%)	1,021 (01%)
SELF-PROPELLED TANKER VESSEL	101,418 (61%)	106,045 (65%)	102,973 (60%)	84,367 (55%)	75,332 (53%)
NON-SELF-PROPELLED DRY CARGO BARGE	19,176 (11%)	16,454 (10%)	24,320 (14%)	17,824 (12%)	13,839 (10%)
NON-SELF-PROPELLED TANK BARGE	44,975 (27%)	39,502 (24%)	43,331 (25%)	50,343 (33%)	51,679 (36%)
TOTAL	166,832	163,044	171,830	153,137	141,871
INTERCOASTAL					
SELF-PROPELLED DRY CARGO VESSEL	623 (10%)	302 (08%)	175 (04%)	406 (06%)	253 (05%)
SELF-PROPELLED TANKER VESSEL	5,409 (89%)	3,520 (89%)	4,201 (94%)	6,251 (93%)	5,020 (94%)
NON-SELF-PROPELLED DRY CARGO BARGE	16 (--%)	21 (01%)	41 (01%)	17 (--%)	--- (--%)
NON-SELF-PROPELLED TANK BARGE	30 (--%)	98 (02%)	40 (01%)	19 (--%)	41 (01%)
TOTAL	6,078	3,941	4,457	6,693	5,314
NON-CONTIGUOUS					
SELF-PROPELLED DRY CARGO VESSEL	10,204 (07%)	9,891 (07%)	8,506 (05%)	9,204 (05%)	8,993 (05%)
SELF-PROPELLED TANKER VESSEL	132,705 (86%)	125,362 (85%)	172,302 (89%)	155,099 (88%)	157,490 (89%)
NON-SELF-PROPELLED DRY CARGO BARGE	5,698 (04%)	5,603 (04%)	6,715 (03%)	6,060 (03%)	6,208 (03%)
NON-SELF-PROPELLED TANK BARGE	5,054 (03%)	6,119 (04%)	6,346 (03%)	6,080 (03%)	5,071 (03%)
TOTAL	153,661	146,975	193,869	176,443	176,762
GRAND TOTAL					
SELF-PROPELLED DRY CARGO VESSEL	12,090 (04%)	11,236 (04%)	9,887 (03%)	10,213 (03%)	10,267 (03%)
SELF-PROPELLED TANKER VESSEL	239,532 (73%)	234,927 (75%)	279,476 (76%)	245,717 (73%)	237,842 (73%)
NON-SELF-PROPELLED DRY CARGO BARGE	24,890 (08%)	22,078 (07%)	31,076 (08%)	23,901 (07%)	20,047 (06%)
NON-SELF-PROPELLED TANK BARGE	50,059 (15%)	45,719 (14%)	49,717 (23%)	56,442 (17%)	56,791 (18%)
TOTAL	326,571	313,960	370,156	336,273	324,947

NOTE: TOTALS MAY NOT EQUAL 100 PERCENT BECAUSE OF ROUNDING

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U.S. DOMESTIC OCEANBORNE COMMERCE BY AREA AND TYPE OF VESSEL
(THOUSANDS OF SHORT TONS AND PERCENTAGE OF TOTAL)

	1978	1979	1980	1981	1982
ATLANTIC COAST					
SELF-PROPELLED DRY CARGO VESSEL	883 (02%)	758 (02%)	940 (02%)	447 (01%)	680 (01%)
SELF-PROPELLED TANKER VESSEL	17,338 (33%)	15,702 (34%)	13,790 (28%)	10,927 (23%)	8,769 (18%)
NON-SELF-PROPELLED DRY CARGO BARGE	6,241 (12%)	4,450 (10%)	6,571 (13%)	4,971 (10%)	5,408 (11%)
NON-SELF-PROPELLED TANK BARGE	27,789 (53%)	25,500 (55%)	28,660 (57%)	32,005 (66%)	32,707 (69%)
TOTAL	52,251	46,410	49,961	48,350	47,564
ATLANTIC/GULF					
SELF-PROPELLED DRY CARGO VESSEL	294 (--%)	226 (--%)	236 (--%)	102 (--%)	272 (01%)
SELF-PROPELLED TANKER VESSEL	51,500 (86%)	52,419 (87%)	43,033 (82%)	33,384 (79%)	29,960 (76%)
NON-SELF-PROPELLED DRY CARGO BARGE	125 (--%)	292 (--%)	1,179 (02%)	420 (01%)	342 (01%)
NON-SELF-PROPELLED TANK BARGE	8,040 (13%)	7,198 (12%)	8,064 (15%)	8,392 (20%)	8,730 (22%)
TOTAL	59,959	60,135	52,512	42,298	39,304
GULF COAST					
SELF-PROPELLED DRY CARGO VESSEL	75 (--%)	11 (--%)	11 (--%)	34 (--%)	--- (--%)
SELF-PROPELLED TANKER VESSEL	11,619 (38%)	13,945 (46%)	17,698 (45%)	14,648 (42%)	12,559 (44%)
NON-SELF-PROPELLED DRY CARGO BARGE	11,416 (37%)	10,080 (33%)	14,900 (38%)	11,499 (33%)	7,464 (26%)
NON-SELF-PROPELLED TANK BARGE	7,850 (25%)	6,165 (20%)	6,291 (16%)	9,049 (26%)	8,451 (30%)
TOTAL	30,960	30,201	38,900	35,230	28,474
PACIFIC COAST					
SELF-PROPELLED DRY CARGO VESSEL	11 (--%)	48 (--%)	19 (--%)	20 (--%)	69 (--%)
SELF-PROPELLED TANKER VESSEL	20,961 (89%)	23,979 (91%)	28,452 (93%)	25,408 (93%)	24,044 (91%)
NON-SELF-PROPELLED DRY CARGO BARGE	1,394 (06%)	1,632 (06%)	1,670 (05%)	934 (03%)	625 (02%)
NON-SELF-PROPELLED TANK BARGE	1,296 (05%)	639 (02%)	316 (01%)	897 (03%)	1,791 (07%)
TOTAL	23,662	26,298	30,457	27,259	26,529
GRAND TOTAL					
SELF-PROPELLED DRY CARGO VESSEL	1,263 (01%)	1,043 (01%)	1,206 (01%)	603 (--%)	1,021 (01%)
SELF-PROPELLED TANKER VESSEL	101,418 (61%)	106,045 (65%)	102,973 (60%)	84,367 (55%)	75,332 (53%)
NON-SELF-PROPELLED DRY CARGO BARGE	19,176 (11%)	16,454 (10%)	24,320 (14%)	17,824 (12%)	13,839 (10%)
NON-SELF-PROPELLED TANK BARGE	44,975 (27%)	39,502 (24%)	43,331 (25%)	50,343 (33%)	51,679 (36%)
TOTAL	166,832	163,044	171,830	153,137	141,871

NOTE: TOTALS MAY NOT EQUAL 100 PERCENT BECAUSE OF STATISTICAL ROUNDING

U.S. INTERCOASTAL OCEANBORNE COMMERCE BY AREA AND TYPE OF VESSEL
(THOUSANDS OF SHORT TONS AND PERCENTAGE OF TOTAL)

	1978	1979	1980	1981	1982
WESTBOUND					
SELF-PROPELLED DRY CARGO VESSEL	539 (18%)	287 (11%)	131 (06%)	295 (12%)	109 (05%)
SELF-PROPELLED TANKER VESSEL	2,524 (82%)	2,143 (85%)	1,897 (92%)	2,243 (88%)	1,954 (93%)
NON-SELF-PROPELLED DRY CARGO BARGE	15 (--%)	18 (01%)	23 (01%)	16 (01%)	--- (--%)
NON SELF-PROPELLED TANK BARGE	--- (--%)	87 (03%)	6 (--%)	--- (--%)	41 (02%)
TOTAL	3,078	2,535	2,057	2,554	2,104
EASTBOUND					
SELF-PROPELLED DRY CARGO VESSEL	84 (03%)	15 (01%)	44 (02%)	111 (03%)	144 (04%)
SELF-PROPELLED TANKER VESSEL	2,885 (96%)	1,377 (98%)	2,304 (96%)	4,008 (97%)	3,066 (96%)	
NON-SELF-PROPELLED DRY CARGO BARGE	1 (--%)	3 (--%)	18 (01%)	1 (--%)	--- (--%)
NON-SELF-PROPELLED TANK BARGE	30 (01%)	11 (01%)	34 (01%)	19 (--%)	--- (--%)
TOTAL	3,000	1,406	2,400	4,139	3,210
GRAND TOTAL					
SELF-PROPELLED DRY CARGO VESSEL	623 (10%)	302 (08%)	175 (04%)	406 (06%)	253 (05%)
SELF-PROPELLED TANKER VESSEL	5,409 (89%)	3,520 (89%)	4,201 (94%)	6,251 (93%)	5,020 (94%)
NON-SELF-PROPELLED DRY CARGO BARGE	16 (--%)	21 (01%)	41 (01%)	17 (--%)	--- (--%)
NON-SELF-PROPELLED TANK BARGE	30 (--%)	98 (02%)	40 (01%)	19 (--%)	41 (01%)
TOTAL	6,078	3,941	4,457	6,693	5,314

NOTE: TOTALS MAY NOT EQUAL 100 PERCENT BECAUSE OF STATISTICAL ROUNDING

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U.S. NONCONTIGUOUS OCEANBORNE COMMERCE BY AREA AND TYPE OF VESSEL
(THOUSANDS OF SHORT TONS AND PERCENTAGE OT TOTAL)

	1978	1979	1980	1981	1982
HAWAIIAN ISLANDS					
SELF-PROPELLED DRY CARGO VESSEL	4,030 (43%)	4,135 (38%)	3,922 (41%)	3,934 (36%)	3,625 (35%)
SELF-PROPELLED TANK VESSEL	2,684 (28%)	4,046 (37%)	2,253 (24%)	3,322 (30%)	3,162 (30%)
NON-SELF-PROPELLED DRY CARGO BARGE	2,617 (28%)	2,504 (23%)	3,067 (32%)	2,891 (26%)	2,958 (28%)
NON-SELF-PROPELLED TANK BARGE	96 (01%)	234 (02%)	244 (03%)	768 (07%)	677 (06%)
TOTAL	9,427	10,919	9,486	10,915	10,422
ALASKA/PANAMA					
SELF-PROPELLED DRY CARGO VESSEL	1,455 (02%)	1,798 (02%)	1,274 (01%)	1,418 (01%)	1,477 (01%)
SELF-PROPELLED TANK VESSEL	98,644 (96%)	88,112 (96%)	129,694 (97%)	116,949 (97%)	124,149 (97%)
NON-SELF-PROPELLED DRY CARGO BARGE	1,395 (01%)	1,211 (01%)	1,582 (01%)	1,634 (01%)	1,633 (01%)
NON-SELF-PROPELLED TANK BARGE	820 (01%)	790 (01%)	694 (01%)	749 (01%)	709 (01%)
TOTAL	102,314	91,911	133,244	120,750	126,968
PUERTO RICO/VIRGIN ISLANDS					
SELF-PROPELLED DRY CARGO VESSEL	4,450 (11%)	3,809 (09%)	3,207 (06%)	3,753 (03%)	3,777 (10%)
SELF-PROPELLED TANK VESSEL	31,377 (75%)	33,200 (76%)	40,355 (79%)	34,828 (78%)	30,179 (77%)
NON-SELF-PROPELLED DRY CARGO BARGE	1,661 (04%)	1,867 (04%)	2,003 (04%)	1,533 (04%)	1,617 (04%)
NON-SELF-PROPELLED TANK BARGE	4,018 (10%)	5,061 (12%)	5,405 (11%)	4,563 (10%)	3,685 (09%)
TOTAL	41,596	43,937	50,970	44,677	39,258
OTHER PACIFIC ISLANDS					
SELF-PROPELLED DRY CARGO VESSEL	269 (83%)	149 (72%)	103 (61%)	99 (98%)	114 (--%)
SELF-PROPELLED TANKER VESSEL	--- (--%)	4 (02%)	--- (--%)	--- (--%)	--- (--%)
NON-SELF-PROPELLED DRY CARGO BARGE	25 (08%)	21 (10%)	63 (37%)	2 (02%)	--- (--%)
NON-SELF-PROPELLED TANK BARGE	30 (09%)	34 (16%)	3 (02%)	--- (--%)	--- (--%)
TOTAL	324	208	169	101	114
GRAND TOTAL					
SELF-PROPELLED DRY CARGO VESSEL	10,204 (07%)	9,891 (07%)	8,506 (04%)	9,204 (05%)	8,993 (05%)
SELF-PROPELLED TANKER VESSEL	132,705 (86%)	125,362 (85%)	172,302 (89%)	155,099 (88%)	157,490 (89%)
NON-SELF-PROPELLED DRY CARGO BARGE	5,698 (04%)	5,603 (04%)	6,919 (04%)	6,060 (03%)	6,208 (03%)
NON-SLEF-PROPELLED TANK BARGE	5,054 (03%)	6,119 (04%)	6,346 (03%)	6,080 (03%)	5,071 (03%)
TOTAL	153,661	146,975	194,073	176,443	176,762

NOTE: TOTALS MAY NOT EQUAL 100 PERCENT BECAUSE OF ROUNDING

DOMESTIC OCEANBORNE COMMERCE OF THE UNITED STATES
BETWEEN GEOGRAPHICAL AREAS - BY TYPE OF VESSEL
CALENDAR YEAR 1978 (SHORT TONS)

AREA OF SHIPPING

SELF-PROPELLED VESSELS

AREA OF RECEIVING

	Total Tons	North Atlantic	South Atlantic	Gulf	California	Pacific	Great Lakes	Hawaii	Alaska	Puerto Rico & Vir. Isl.	Other Pacific Islands Trust Terr.	Panama
North Atlantic	2,829,794	640,536	62,044	64,730	61,873	1,238	----	58,957	----	1,927,725	12,691	----
South Atlantic	926,047	180,391	100	610	179,646	----	----	7,958	----	555,649	1,693	----
Gulf	956,901	227,991	617	75,147	17,571	278,358	----	----	----	357,217	----	----
California	1,986,390	19,390	12,693	13,489	1,414	9,724	----	1,565,295	----	179,607	184,778	----
Pacific	1,304,435	32,899	5,220	241	2	----	----	222,881	1,043,192	----	----	----
Great Lakes	----	----	----	----	----	----	Excluded*	----	----	----	----	----
Hawaii	2,170,958	----	----	128,045	1,338,704	87,262	----	616,505	----	----	442	----
Alaska	411,596	----	----	----	1	265,844	----	----	145,751	----	----	----
Puerto Rico & Virgin Islands	1,429,723	1,087,049	119,943	61,101	1,373	2	----	----	----	160,255	----	----
Other Pacific Islands	68,908	----	----	----	65,175	----	----	3,733	----	----	----	----
Panama	----	----	----	----	----	----	----	----	----	----	----	----
Total-Dry	12,084,752	2,188,256	200,617	343,363	1,665,759	642,428	----	2,475,329	1,188,943	3,180,453	199,604	----
North Atlantic	18,109,257	15,826,183	1,119,118	1,093,526	40,661	950	----	----	----	28,819	----	----
South Atlantic	979,059	322,663	70,206	454,805	----	----	----	----	----	131,385	----	----
Gulf	64,470,931	35,457,849	14,509,382	11,661,198	2,279,017	203,346	73,963	1,214	----	284,962	----	----
California	23,444,737	1,396,302	140,341	1,077,700	12,120,239	6,382,214	----	1,042,489	737,663	253,971	----	293,818
Pacific	2,816,965	23,019	----	247,288	2,328,415	129,992	----	19,481	37,918	30,852	----	----
Great Lakes	----	----	----	----	----	----	Excluded*	----	----	----	----	----
Hawaii	1,004,725	----	----	----	759,529	163,087	----	82,109	----	----	----	----
Alaska	60,811,396	254,003	----	639,663	29,616,403	9,518,349	----	616,272	1,180,079	288,845	----	18,707,782
Puerto Rico & Virgin Islands	28,099,237	22,330,430	4,169,741	1,403,878	138,584	25,236	----	----	----	31,368	----	----
Other Pacific Islands	----	----	----	----	----	----	----	----	----	----	----	----
Panama	18,075,376	3,845,278	----	11,970,918	----	----	----	----	----	2,259,180	----	----
Total-Tanker	217,811,683	79,455,727	20,008,788	28,538,976	47,282,848	16,423,174	73,963	1,761,565	1,955,660	3,309,382	----	19,001,600

*See pages 104-117 for Great Lakes Data

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DOMESTIC OCEANBORNE COMMERCE OF THE UNITED STATES
BETWEEN GEOGRAPHICAL AREAS - BY TYPE OF VESSEL
CALENDAR YEAR 1978 (SHORT TONS)

AREA OF SHIPPING — AREA OF RECEIVING

NON-SELF-PROPELLED VESSELS

	Total Tons	North Atlantic	South Atlantic	Gulf	California	Pacific	Great Lakes	Hawaii	Alaska	Puerto Rico & Vir. Isl.	Other Pacific Islands Trust Terr.	Panama
North Atlantic	6,383,065	5,856,466	339,828	46,646	12,745	2,400	1,300	----	----	123,680	----	----
South Atlantic	373,983	26,850	17,543	13,182	----	----	----	----	----	316,408	----	----
Gulf	12,281,219	41,020	24,167	11,417,350	----	----	86,533	720	----	711,429	----	----
California	76,344	----	----	----	17,819	17,854	----	33,038	7,633	----	----	----
Pacific	2,226,154	660	----	----	749,599	609,052	----	198,934	664,334	----	3,575	----
Great Lakes	62,102	----	----	62,102	----	----	Excluded*	----	----	----	----	----
Hawaii	2,383,246	----	----	----	109,216	224	----	2,259,966	----	----	13,840	----
Alaska	723,319	----	----	----	177,826	410,057	----	----	135,436	----	----	----
Puerto Rico & Virgin Islands	509,713	48,991	160,125	18,560	----	----	----	----	----	282,037	----	----
Other Pacific Islands	8,039	----	----	----	----	----	----	975	----	----	7,064	----
Panama	----	----	----	----	----	----	----	----	----	----	----	----
Total-Dry	25,027,184	5,973,987	541,663	11,557,840	1,067,205	1,039,587	87,833	2,493,633	807,403	1,433,554	24,479	----
North Atlantic	27,403,318	26,989,039	306,100	103,679	----	----	----	----	----	4,500	----	----
South Atlantic	556,136	92,403	402,746	60,987	----	----	----	----	----	----	----	----
Gulf	15,795,809	1,580,451	6,295,065	7,850,420	----	----	----	----	----	69,873	----	----
California	1,143,427	13,859	----	16,613	949,792	163,163	----	----	----	----	----	----
Pacific	609,673	----	----	----	112,356	70,601	----	----	426,716	----	----	----
Great Lakes	----	----	----	----	----	----	Excluded*	----	----	----	----	----
Hawaii	96,267	----	----	----	----	----	----	96,267	----	----	----	----
Alaska	392,823	----	----	----	----	52,763	----	----	340,060	----	----	----
Puerto Rico & Virgin Islands	3,985,878	146,929	719,055	322,592	----	----	----	----	----	2,797,302	----	----
Other Pacific Islands	30,446	----	----	----	----	----	----	----	----	----	30,446	----
Panama	132,058	----	----	84,767	----	----	----	----	----	47,291	----	----
Total-Tank	50,145,835	28,822,681	7,722,966	8,439,058	1,062,148	286,527	----	96,267	766,776	2,918,966	30,446	----

*See pages 104-117 for Great Lakes Data

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DOMESTIC OCEANBORNE COMMERCE OF THE UNITED STATES
BETWEEN GEOGRAPHICAL AREAS - BY TYPE OF VESSEL
CALENDAR YEAR 1979 (SHORT TONS)

AREA OF SHIPPING — AREA OF RECEIVING

SELF-PROPELLED VESSELS

	Total Tons	North Atlantic	South Atlantic	Gulf	California	Pacific	Great Lakes	Hawaii	Alaska	Puerto Rico & Vir. Isl.	Other Pacific Islands Trust Terr.	Panama
North Atlantic	2,409,191	553,884	37,613	31,491	9,187	351	----	50,280	----	1,719,097	7,288	----
South Atlantic	730,814	166,752	----	124	24,892	----	----	8,022	1,922	527,931	1,171	----
Gulf	865,332	144,248	49,822	10,952	302	252,056	----	----	68	407,884	----	----
California	1,865,063	14,373	71	290	8,440	39,078	----	1,669,518	----	5,661	127,632	----
Pacific	1,144,773	----	----	198	----	508	----	223,974	920,093	----	----	----
Great Lakes	----	----	----	----	----	----	Excluded*	----	----	----	----	----
Hawaii	2,183,165	----	----	----	1,524,942	111,924	----	545,438	----	----	861	----
Alaska	876,392	22	----	----	129,079	380,406	----	----	366,885	----	----	----
Puerto Rico & Virgin Islands	1,148,486	754,938	112,959	89,004	8,640	----	----	----	----	182,945	----	----
Other Pacific Islands	11,745	----	----	----	11,731	----	----	14	----	----	----	----
Panama	----	----	----	----	----	----	----	----	----	----	----	----
Total-Dry	11,234,961	1,634,217	200,465	132,059	1,717,213	784,323	----	2,497,246	1,288,968	2,843,518	136,952	----
North Atlantic	18,145,280	14,830,306	556,733	2,661,669	----	----	----	----	----	96,572	----	----
South Atlantic	986,951	229,380	85,649	502,664	----	----	----	----	----	169,258	----	----
Gulf	66,085,605	34,066,341	15,188,027	13,944,661	1,972,111	171,257	60,658	52,661	----	629,889	----	----
California	24,823,253	567,748	97,647	645,606	14,319,616	7,036,231	----	854,395	592,856	395,988	----	313,166
Pacific	2,747,748	29,922	----	36,431	2,236,941	385,975	----	43,528	14,951	----	----	----
Great Lakes	25,562	25,562	----	----	----	----	Excluded*	----	----	----	----	----
Hawaii	848,462	51,728	----	----	569,194	98,217	----	125,244	----	----	4,079	----
Alaska	65,604,044	122,709	----	141,864	41,262,929	9,832,980	----	2,246,805	445,958	131,111	----	11,419,688
Puerto Rico & Virgin Islands	29,291,213	23,328,502	3,662,356	2,144,150	46,580	65,698	----	----	----	43,927	----	----
Other Pacific Islands	----	----	----	----	----	----	----	----	----	----	----	----
Panama	10,166,960	2,013,197	----	5,668,246	----	----	----	----	----	2,485,517	----	----
Total-Tanker	218,725,078	75,265,395	19,590,412	25,745,291	60,407,371	17,590,358	60,658	3,322,633	1,053,765	3,952,262	4,079	11,732,854

*See pages 104-117 for Great Lakes Data

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DOMESTIC OCEANBORNE COMMERCE OF THE UNITED STATES
BETWEEN GEOGRAPHICAL AREAS - BY TYPE OF VESSEL
CALENDAR YEAR 1979 (SHORT TONS)

AREA OF SHIPPING — AREA OF RECEIVING

NON-SELF-PROPELLED VESSELS

	Total Tons	North Atlantic	South Atlantic	Gulf	California	Pacific	Great Lakes	Hawaii	Alaska	Puerto Rico & Vir. Isl.	Other Pacific Islands Trust rr.	Panama
North Atlantic	4,463,085	3,905,483	352,329	59,500	----	----	5,470	----	----	140,303	----	----
South Atlantic	663,649	187,637	4,652	31,641	----	----	----	----	----	439,719	----	----
Gulf	11,214,691	120,566	80,488	10,079,771	18,016	----	71,313	----	----	844,537	----	----
California	162,580	----	----	----	21,748	63,775	----	77,057	----	----	----	----
Pacific	2,425,147	----	2,700	----	809,211	737,138	----	201,905	672,992	----	1,200	----
Great Lakes	37,290	----	----	37,290	----	----	Excluded*	----	----	----	----	----
Hawaii	2,224,072	----	----	----	134,811	131	----	2,077,662	----	----	11,468	----
Alaska	537,55[illegible]	----	----	----	95,192	343,693	----	----	98,671	----	----	----
Puerto Rico & Virgin Islands	442,32[illegible]	16,617	21,694	80,382	----	----	----	----	----	323,636	----	----
Other Pacific Islands	8,274	----	----	----	----	----	----	1,059	----	----	7,215	----
Panama	----	----	----	----	----	----	----	----	----	----	----	----
Total-Dry	22,178,673	4,230,303	461,863	10,288,584	1,078,978	1,144,737	76,783	2,357,684	771,663	1,748,195	19,883	----
North Atlantic	24,854,227	24,439,388	296,198	102,144	----	----	6,954	----	----	9,543	----	----
South Atlantic	840,111	107,507	656,622	75,982	----	----	----	----	----	----	----	----
Gulf	13,399,613	988,991	6,031,273	6,165,218	36,086	50,694	----	----	----	127,351	----	----
California	485,411	11,484	----	----	294,185	149,502	----	----	----	30,240	----	----
Pacific	578,416	----	----	----	115,110	80,474	----	----	382,832	----	----	----
Great Lakes	----	----	----	----	----	----	Excluded*	----	----	----	----	----
Hawaii	233,910	----	----	----	----	----	----	233,910	----	----	----	----
Alaska	407,409	----	----	----	----	38,613	----	----	368,796	----	----	----
Puerto Rico & Virgin Islands	4,893,543	157,311	951,817	334,256	----	----	----	----	----	3,450,159	----	----
Other Pacific Islands	34,118	----	----	----	----	----	----	----	----	----	34,118	----
Panama	----	----	----	----	----	----	----	----	----	----	----	----
Total-Tanker	45,726,758	25,704,681	7,935,910	6,677,600	445,381	319,283	6,954	233,910	751,628	3,617,293	34,118	----

*See pages 104-117 for Great Lakes Data

DOMESTIC OCEANBORNE COMMERCE OF THE UNITED STATES

BETWEEN GEOGRAPHICAL AREAS - BY TYPE OF VESSEL

CALENDAR YEAR 1980 (SHORT TONS)

AREA OF SHIPPING — AREA OF RECEIVING

SELF-PROPELLED VESSELS

	Total Tons	North Atlantic	South Atlantic	Gulf	California	Pacific N.W.	Great Lakes	Hawaiian Islands	Alaska	Puerto Rico & Vir. Isl.	Other Pacific Islands Trust Terr.	Panama
North Atlantic	1,809,786	850,415	45,772	15,536	29,345	1,845	----	43,598	----	816,401	6,874	----
South Atlantic	612,878	6,525	37,186	519	50,122	260	----	13,221	----	502,803	2,222	----
Gulf	814,607	219,466	64	10,654	526	48,708	----	----	----	535,189	----	----
California	1,744,314	42,881	----	57	6,175	12,586	----	1,578,046	47	12,501	92,021	----
Pacific Northwest	1,240,024	914	----	----	H	118	----	239,611	999,298	75	----	----
Great Lakes	----	----	----	----	----	----	Excluded*	----	----	----	----	----
Hawaiian Islands	2,047,238	75,620	----	24,486	1,382,636	58,566	----	503,634	----	----	2,296	----
Alaska	274,248	16	117	----	----	254,326	----	----	19,789	----	----	----
Puerto Rico & Virgin Islands	1,339,583	897,589	83,420	158,567	7,186	19	----	----	----	192,802	----	----
Other Pacific Islands	----	----	----	----	----	----	----	----	----	----	----	----
Panama	----	----	----	----	----	----	----	----	----	----	----	----
Total-Dry	9,882,678	2,093,426	166,559	209,819	1,475,998	376,448	----	2,378,110	1,019,134	2,059,771	103,413	----
North Atlantic	15,212,232	12,459,776	851,359	1,737,886	----	----	----	----	----	163,211	----	----
South Atlantic	1,301,115	281,723	197,389	510,651	129,908	6,844	----	----	----	174,600	----	----
Gulf	62,288,293	27,219,347	13,565,216	17,697,598	1,638,941	121,162	47,164	----	----	1,998,865	----	----
California	29,539,744	532,438	208,461	1,218,278	18,547,342	6,783,213	----	914,145	573,770	762,097	----	----
Pacific Northwest	3,731,150	95,536	123,602	125,210	2,203,670	917,954	----	191,642	10,286	73,250	----	----
Great Lakes	----	----	----	----	----	----	Excluded*	----	----	----	----	----
Hawaiian Islands	498,955	----	----	----	404,155	----	----	56,387	38,413	----	----	----
Alaska	83,483,830	38,893	----	760,368	42,464,082	9,668,516	----	658,641	905,350	6,552,586	----	22,435,394
Puerto Rico & Virgin Islands	26,661,622	21,215,584	2,317,218	2,869,818	174,506	67,976	----	----	----	16,520	----	----
Other Pacific Islands	----	----	----	----	----	----	----	----	----	----	----	----
Panama	22,246,873	3,989,286	----	14,288,596	----	----	----	----	----	3,968,991	----	----
Total-Tanker	244,963,814	65,832,583	17,263,245	39,208,405	65,562,604	17,565,665	47,164	1,810,815	1,527,819	13,710,120	----	22,435,394

*See pages 104-117 for Great Lakes Data

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DOMESTIC OCEANBORNE COMMERCE OF THE UNITED STATES

BETWEEN GEOGRAPHICAL AREAS - BY TYPE OF VESSEL

CALENDAR YEAR 1980 (SHORT TONS)

AREA OF SHIPPING — AREA OF RECEIVING

NON-SELF-PROPELLED VESSELS

	Total Tons	North Atlantic	South Atlantic	Gulf	California	Pacific N.W.	Great Lakes	Hawaiian Islands	Alaska	Puerto Rico & Vir. Isl.	Other Pacific Islands Trust Terr.	Panama
North Atlantic	5,563,711	4,890,609	506,396	67,512	1,450	----	----	----	----	97,744	----	----
South Atlantic	2,191,540	956,352	217,858	463,817	----	----	1,000	----	----	552,513	----	----
Gulf	16,447,656	149,214	498,856	14,900,136	21,186	----	67,848	----	----	810,416	----	----
California	467,545	----	----	18,268	201,191	102,102	----	119,530	26,454	----	----	----
Pacific Northwest	2,599,610	----	----	----	470,589	895,646	----	428,452	804,923	----	----	----
Great Lakes	100,917	----	----	100,917	----	----	Excluded*	----	----	----	----	----
Hawaiian Islands	2,518,124	----	----	----	125,484	----	----	2,349,146	----	----	43,494	----
Alaska	750,469	----	----	----	229,905	351,476	----	----	169,088	----	----	----
Puerto Rico & Virgin Islands	542,050	170,802	40,386	56,990	----	----	----	----	----	273,872	----	----
Other Pacific Islands	19,845	----	----	----	----	----	----	604	----	----	19,241	----
Panama	----	----	----	----	----	----	----	----	----	----	----	----
Total-Dry	31,201,467	6,166,977	1,263,496	15,607,640	1,049,805	1,349,224	68,848	2,897,732	1,000,465	1,734,545	62,735	----
North Atlantic	27,731,455	27,064,351	484,707	134,521	----	----	47,876	----	----	----	----	----
South Atlantic	1,346,276	76,704	1,034,294	235,278	----	----	----	----	----	----	----	----
Gulf	14,157,092	1,101,960	6,592,091	6,291,181	----	5,859	2,650	----	----	163,351	----	----
California	99,493	----	----	33,807	14,267	21,736	----	----	29,683	----	----	----
Pacific Northwest	681,912	----	----	----	218,152	61,990	----	11,500	390,270	----	----	----
Great Lakes	150,620	150,620	----	----	----	----	Excluded*	----	----	----	----	----
Hawaiian Islands	232,139	----	----	----	----	----	----	232,139	----	----	----	----
Alaska	274,103	----	----	----	----	43,512	----	----	230,591	----	----	----
Puerto Rico & Virgin Islands	5,241,179	148,706	1,176,030	596,636	----	----	----	----	----	3,319,807	----	----
Other Pacific Islands	2,679	----	----	----	----	----	----	----	----	----	2,679	----
Panama	----	----	----	----	----	----	----	----	----	----	----	----
Total-Tanker	49,916,948	28,542,341	9,287,122	7,291,423	232,419	133,097	50,526	243,639	650,544	3,483,158	2,679	----

*See pages 104-117 for Great Lakes Data

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DOMESTIC OCEANBORNE COMMERCE OF THE UNITED STATES

BETWEEN GEOGRAPHICAL AREAS - BY TYPE OF VESSEL

CALENDAR YEAR 1981 (SHORT TONS)

AREA OF SHIPPING — AREA OF RECEIVING

SELF-PROPELLED VESSELS

	Total Tons	North Atlantic	South Atlantic	Gulf	California	Pacific N.W.	Great Lakes	Hawaiian Islands	Alaska	Puerto Rico & Vir. Isl.	Other Pacific Islands Trust Terr.	Panama
North Atlantic	1,991,938	303,154	38,567	----	15,778	2,828	----	49,451	----	1,576,312	5,848	----
South Atlantic	765,115	571	104,371	14,772	19	----	----	20,260	----	624,214	908	----
Gulf	921,426	77,567	9,384	33,743	22,741	253,408	----	----	----	524,583	----	----
California	1,672,270	99,910	19	10,168	18,559	1,748	----	1,446,227	----	3,286	92,353	----
Pacific Northwest	1,381,955	802	----	50	51	----	----	209,070	1,171,723	259	----	----
Great Lakes	----	----	----	----	----	----	Excluded*	----	----	----	----	----
Hawaiian Islands	2,209,237	24,824	----	199,543	1,323,952	99,034	----	561,884	----	----	----	----
Alaska	246,394	----	----	----	----	237,229	----	----	9,165	----	----	----
Puerto Rico & Virgin Islands	1,023,916	581,485	133,601	114,056	6,067	101	----	----	----	188,606	----	----
Other Pacific Islands	----	----	----	----	----	----	----	----	----	----	----	----
Panama	----	----	----	----	----	----	----	----	----	----	----	----
Total-Dry	10,212,251	1,088,313	285,942	372,332	1,387,167	594,348	----	2,286,892	1,180,888	2,917,260	99,109	----
North Atlantic	11,721,472	9,295,822	1,078,640	1,275,079	----	----	----	----	----	71,931	----	----
South Atlantic	732,860	500,027	52,543	118,377	14,312	26,739	----	----	----	20,862	----	----
Gulf	49,986,532	19,437,378	12,553,621	14,648,144	1,958,308	243,316	----	----	----	1,145,765	----	----
California	28,831,883	1,476,084	191,124	2,097,349	16,399,899	6,459,262	----	704,973	400,569	1,102,623	----	----
Pacific Northwest	2,941,322	211,091	15,769	16,560	2,019,640	529,360	----	88,038	60,864	----	----	----
Great Lakes	----	----	----	----	----	----	Excluded*	----	----	----	----	----
Hawaiian Islands	381,093	12,901	27,711	----	140,881	89,768	----	68,838	40,994	----	----	----
Alaska	88,798,982	224,000	----	792,738	39,591,648	10,144,516	----	2,127,511	977,717	6,277,522	----	28,663,330
Puerto Rico & Virgin Islands	23,271,958	16,670,721	2,756,213	3,599,177	67,127	69,697	----	20,063	----	88,960	----	----
Other Pacific Islands	----	----	----	----	----	----	----	----	----	----	----	----
Panama	28,797,487	4,207,397	----	21,652,257	----	----	----	----	----	2,937,833	----	----
Total-Tanker	235,463,589	52,035,421	16,675,621	44,199,681	60,191,815	17,562,658	----	3,009,423	1,480,144	11,645,496	----	28,663,330

*See pages 104-117 for Great Lakes Data

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DOMESTIC OCEANBORNE COMMERCE OF THE UNITED STATES
BETWEEN GEOGRAPHICAL AREAS - BY TYPE OF VESSEL
CALENDAR YEAR 1981 (SHORT TONS)

AREA OF SHIPPING — AREA OF RECEIVING

NON-SELF-PROPELLED VESSELS

	Total Tons	North Atlantic	South Atlantic	Gulf	California	Pacific	Great Lakes	Hawaii	Alaska	Puerto Rico & Vir. Isl.	Other Pacific Islands Trust Te r.	Panama
North Atlantic	4,567,455	3,961,617	532,753	22,082	730	----	----	----	----	50,273	----	----
South Atlantic	1,181,718	347,587	128,800	182,943	----	----	----	----	----	522,388	----	----
Gulf	12,508,177	102,432	112,998	11,499,122	11,400	4,330	21,110	----	----	756,785	----	----
California	500,258	----	400	----	185,905	160,294	----	101,029	52,630	----	----	----
Pacific	1,762,654	110	----	----	469,183	118,973	----	273,933	897,314	----	1,941	1,200
Great Lakes	5,931	240	891	4,800	----	----	Excluded*	----	----	----	----	----
Hawaii	2,515,526	----	----	----	95,017	772	----	2,419,727	----	----	10	----
Alaska	684,472	----	----	----	156,731	310,549	----	----	217,192	----	----	----
Puerto Rico & Virgin Islands	203,591	23,202	130,963	49,426	----	----	----	----	----	----	----	----
Other Pacific Islands	412	----	----	----	----	----	----	320	----	----	92	----
Panama	----	----	----	----	----	----	----	----	----	----	----	----
Total-Dry	23,930,194	4,435,188	906,805	11,758,373	918,966	594,918	21,110	2,795,009	1,167,136	1,329,446	2,043	1,200
North Atlantic	31,476,841	30,736,025	473,216	239,356	----	----	28,244	----	----	----	----	----
South Atlantic	828,224	123,941	671,796	32,487	----	----	----	----	----	----	----	----
Gulf	17,447,317	1,338,205	6,781,953	9,049,321	----	----	----	----	----	277,838	----	----
California	689,623	----	----	18,685	350,879	291,931	----	15,032	13,096	----	----	----
Pacific	665,820	----	----	----	193,165	61,213	----	3,572	407,870	----	----	----
Great Lakes	----	----	----	----	----	----	Excluded*	----	----	----	----	----
Hawaii	749,894	----	----	----	----	29,059	----	720,835	----	----	----	----
Alaska	328,535	----	----	----	12,798	78,959	----	----	236,778	----	----	----
Puerto Rico & Virgin Islands	4,284,830	47,076	1,003,531	386,016	----	----	----	----	----	2,848,207	----	----
Other Pacific Islands	----	----	----	----	----	----	----	----	----	----	----	----
Panama	45,668	----	45,668	----	----	----	----	----	----	----	----	----
Total-Tanker	56,516,752	32,245,247	8,976,164	9,725,865	556,842	461,162	28,244	739,439	657,744	3,126,045	----	----

*See pages 104-117 for Great Lakes Data

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DOMESTIC OCEANBORNE COMMERCE OF THE UNITED STATES
BETWEEN GEOGRAPHICAL AREAS - BY TYPE OF VESSEL
CALENDAR YEAR 1982 (SHORT TONS)

AREA OF SHIPPING — AREA OF RECEIVING

SELF-PROPELLED VESSELS

	Total Tons	North Atlantic	South Atlantic	Gulf	California	Pacific N.W.	Great Lakes	Hawaii	Alaska	Puerto Rico & Vir. Isl.	Other Pacific Islands Trust Terr.	Panama
North Atlantic	2,026,872	551,576	75,726	75,743	21,604	1,760	----	47,216	----	1,247,183	6,064	----
South Atlantic	707,273	1	52,316	28,598	27,211	----	----	20,325	----	577,956	866	----
Gulf	747,247	122,289	45,162	----	6,102	52,276	----	----	----	521,418	----	----
California	1,784,586	131,068	2,460	8,414	26,187	58	----	1,366,936	----	142,640	106,823	----
Pacific	1,498,972	422	----	1,405	42,897	----	----	182,866	1,271,382	----	----	----
Great Lakes	----	----	----	----	----	----	Excluded*	----	----	----	----	----
Hawaii	2,008,080	23,670	----	30,500	1,306,768	83,795	----	563,347	----	----	----	----
Alaska	206,063	----	----	----	----	189,220	----	----	16,843	----	----	----
Puerto Rico & Virgin Islands	1,288,212	718,959	140,114	151,182	----	10	----	----	----	277,947	----	----
Other Pacific Islands	----	----	----	----	----	----	----	----	----	----	----	----
Panama	----	----	----	----	----	----	----	----	----	----	----	----
Total-Dry	10,267,305	1,547,985	345,778	295,842	1,430,769	327,119	----	2,180,690	1,288,225	2,767,144	113,753	----
North Atlantic	9,619,620	7,880,422	407,670	1,250,039	40,145	----	----	----	----	41,344	----	----
South Atlantic	505,907	374,425	106,630	24,852	----	----	----	----	----	----	----	----
Gulf	45,076,082	18,647,495	10,037,573	12,558,871	1,804,618	108,751	----	----	----	1,918,774	----	----
California	25,409,469	307,414	25,072	2,446,993	15,444,800	5,866,921	----	684,414	528,452	105,403	----	----
Pacific	3,207,342	----	7,471	279,144	1,838,310	894,093	----	35,128	153,196	----	----	----
Great Lakes	----	----	----	----	----	----	Excluded*	----	----	----	----	----
Hawaii	234,255	----	----	----	144,429	67,447	----	22,379	----	----	----	----
Alaska	93,526,653	----	----	569,247	33,512,590	12,308,298	----	2,208,333	1,015,503	5,997,689	----	37,914,993
Puerto Rico & Virgin Islands	18,970,772	12,664,728	2,133,003	3,544,964	435,460	----	----	----	----	192,617	----	----
Other Pacific Islands	----	----	----	----	----	----	----	----	----	----	----	----
Panama	29,941,131	4,675,291	----	22,120,616	----	----	----	----	----	3,145,224	----	----
Total-Tanker	226,491,231	44,549,775	12,717,419	42,794,726	53,220,352	19,245,510	----	2,950,254	1,697,151	11,401,051	----	37,914,993

*See pages 104-117 for Great Lakes Data

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DOMESTIC OCEANBORNE COMMERCE OF THE UNITED STATES
BETWEEN GEOGRAPHICAL AREAS - BY TYPE OF VESSEL
CALENDAR YEAR 1982 (SHORT TONS)

AREA OF SHIPPING — AREA OF RECEIVING

NON-SELF-PROPELLED VESSELS

	Total Tons	North Atlantic	South Atlantic	Gulf	California	Pacific	Great Lakes	Hawaii	Alaska	Puerto Rico & Vir. Isl.	Other Pacific Islands Trust Terr.	Panama
North Atlantic	5,087,784	4,526,195	332,760	59,271	----	----	----	----	----	169,558	----	----
South Atlantic	1,219,799	486,523	62,814	132,596	----	----	----	----	----	537,866	----	----
Gulf	8,251,643	74,815	75,118	7,463,608	----	----	5,294	----	----	632,808	----	----
California	447,700	----	----	----	75,872	182,182	----	94,345	95,301	----	----	----
Pacific	1,597,547	----	----	----	314,510	52,097	----	250,209	980,731	----	123	----
Great Lakes	----	----	----	----	----	----	Excluded*	----	----	----	----	----
Hawaii	2,613,033	----	----	----	87,487	1,326	----	2,524,220	----	----	----	----
Alaska	556,920	----	----	----	89,012	236,263	----	----	231,645	----	----	----
Puerto Rico & Virgin Islands	276,986	83,622	145,421	45,667	----	----	----	----	----	2,276	----	----
Other Pacific Islands	----	----	----	----	----	----	----	----	----	----	----	----
Panama	----	----	----	----	----	----	----	----	----	----	----	----
Total-Dry	20,051,535	5,171,155	616,113	7,701,142	566,881	471,868	5,294	2,868,774	1,307,677	1,342,508	123	----
North Atlantic	31,816,987	31,284,381	417,257	102,568	----	----	12,781	----	----	----	----	----
South Atlantic	1,012,359	108,270	896,817	7,272	----	----	----	----	----	----	----	----
Gulf	17,233,939	1,100,023	7,520,492	8,450,779	41,276	----	----	----	----	121,369	----	----
California	1,400,533	----	----	----	1,100,323	300,210	----	----	----	----	----	----
Pacific	795,164	----	----	----	300,225	90,716	----	----	404,223	----	----	----
Great Lakes	----	----	----	----	----	----	Excluded*	----	----	----	----	----
Hawaii	677,332	----	----	----	----	----	----	677,332	----	----	----	----
Alaska	304,950	----	----	----	----	37,879	----	----	267,071	----	----	----
Puerto Rico & Virgin Islands	3,563,450	223,670	809,283	192,804	----	----	----	----	----	2,337,693	----	----
Other Pacific Islands	----	----	----	----	----	----	----	----	----	----	----	----
Panama	224,396	----	----	224,396	----	----	----	----	----	----	----	----
Total-Tanker	57,029,110	32,716,344	9,643,849	8,977,819	1,441,824	428,805	12,781	677,332	671,294	2,459,062	----	----

*See pages 104-117 for Great Lakes Data

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REPORT YEAR 1982
U.S. DOMESTIC OCEAN AND GREAT LAKES WATERBORNE COMMERCE
PORT TONNAGE SHIPPED/RECEIVED BY SELF PROPELLED DRY CARGO VESSEL
(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
1	SUPERIOR	12,525,152	15.86	561,816	.71	13,086,968	8.29
2	TOLEDO	6,614,147	8.38	5,323,318	6.74	11,937,465	7.56
3	DULUTH	10,842,372	13.73	791,456	1.00	11,633,828	7.37
4	DETROIT	103,567	.13	10,798,706	13.68	10,902,273	6.90
5	EAST CHICAGO	9,300	.01	9,594,649	12.15	9,603,949	6.08
6	ESCANABA	8,018,645	10.15	315,984	.40	8,334,629	5.28
7	CLEVELAND	321,692	.41	6,504,617	8.24	6,826,309	4.32
8	SILVER BAY	6,150,561	7.79	199,983	.25	6,350,544	4.02
9	LORAIN	1,677,934	2.12	3,613,811	4.58	5,291,745	3.35
10	ALPENA	4,705,422	5.96	492,085	.62	5,197,507	3.29
11	CHICAGO	2,591,782	3.28	2,097,180	2.66	4,688,962	2.97
12	GARY	10,300	.01	4,414,393	5.59	4,424,693	2.80
13	ROGERS CITY	3,902,209	4.94	372,363	.47	4,274,572	2.71
14	PORT HURON	0	.00	3,600,734	4.56	3,600,734	2.28
15	BURNS HARBOR	44,380	.06	3,415,595	4.33	3,459,975	2.19
16	SAN JUAN	916,942	1.16	2,509,171	3.18	3,426,113	2.17
17	HONOLULU	1,077,860	1.36	1,902,492	2.41	2,980,352	1.89
18	BUFFALO	539,028	.68	2,412,800	3.06	2,951,828	1.87
19	SANDUSKY	2,594,044	3.29	54,261	.07	2,648,305	1.68
20	MILWAUKEE	632,925	.80	1,771,445	2.24	2,404,370	1.52
21	MUSKEGON	395,230	.50	1,992,353	2.52	2,387,583	1.51
22	MARQUETTE	878,124	1.11	1,426,013	1.81	2,304,137	1.46
23	ASHTABULA	807,667	1.02	1,438,488	1.82	2,246,155	1.42
24	NEW YORK	1,451,648	1.84	621,486	.79	2,073,134	1.31
25	CONNEAUT	1,360,551	1.72	413,869	.52	1,774,420	1.12
26	GREEN BAY	0	.00	1,764,734	2.23	1,764,734	1.12
27	SAULT STE. MARIE	1,333,717	1.69	22,942	.03	1,356,659	.86
28	ANCHORAGE	114,319	.14	1,174,616	1.49	1,288,935	.82
29	OAKLAND + ALAMEDA	774,778	.98	380,744	.48	1,155,522	.73
30	SAGINAW-BAY CITY	307,830	.39	838,135	1.06	1,145,965	.73
31	FAIRPORT	245,042	.31	860,161	1.09	1,105,203	.70
32	HURON	15,213	.02	1,077,682	1.36	1,092,895	.69
33	SEATTLE	767,752	.97	183,729	.23	951,481	.60
34	LOS ANGELES	659,401	.84	255,140	.32	914,541	.58
35	MANITOWOC	381,559	.48	474,473	.60	856,032	.54
36	TRAVERSE CITY	541,140	.69	275,504	.35	816,644	.52
37	BALTIMORE	361,609	.46	399,745	.51	761,354	.48
38	CARQUINEZ STRAIT	0	.00	718,655	.91	718,655	.46
39	TACOMA	638,615	.81	50,676	.06	689,291	.44
40	DE TOUR VILLAGE	676,924	.86	0	.00	676,924	.43
41	JACKSONVILLE	404,829	.51	107,377	.14	512,206	.32
42	HILO	382,255	.48	118,912	.15	501,167	.32
43	KAHULUI	354,800	.45	110,362	.14	465,162	.29

NOTE: PERCENT COLUMN TOTALS MAY NOT EQUAL 100 PERCENT BECAUSE OF STATISTICAL ROUNDING

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REPORT YEAR 1982
U.S. DOMESTIC OCEAN AND GREAT LAKES WATERBORNE COMMERCE
PORT TONNAGE SHIPPED/RECEIVED BY SELF PROPELLED DRY CARGO VESSEL
(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
44	ERIE	14,428	.02	407,468	.52	421,896	.27
45	HOUSTON	234,311	.30	184,452	.23	418,763	.27
46	NEW ORLEANS	326,955	.41	75,512	.10	402,467	.25
47	BATON ROUGE	135,727	.17	223,741	.28	359,468	.23
48	CHRISTIANSTED	257,982	.33	53,921	.07	311,903	.20
49	FERRYSBURG	180,683	.23	127,256	.16	307,939	.19
50	CHARLESTON	220,274	.28	84,215	.11	304,489	.19
51	NEW BEDFORD	136,966	.17	136,966	.17	273,932	.17
52	PUERTO ARMUELLES	261,792	.33	0	.00	261,792	.17
53	NAWILIWILI-PT. ALLEN	193,165	.24	48,924	.06	242,089	.15
54	LONG BEACH	226,028	.29	4,376	.01	230,404	.15
55	ASHLAND	6,860	.01	188,233	.24	195,093	.12
56	BENTON HARBOR	0	.00	170,362	.22	170,362	.11
57	HOLLAND	0	.00	162,490	.21	162,490	.10
58	BOSTON	1,231	.00	154,836	.20	156,067	.10
59	KODIAK	61,455	.08	65,317	.08	126,772	.08
60	GUAYANILLA	16,240	.02	104,095	.13	120,335	.08
61	MARINETTE	0	.00	118,545	.15	118,545	.08
62	PORTLAND, ORE.	72,253	.09	42,197	.05	114,450	.07
63	MIAMI	58,026	.07	56,030	.07	114,056	.07
64	WAUKEGAN	0	.00	113,997	.14	113,997	.07
65	GUAM ISLAND	0	.00	113,753	.14	113,753	.07
66	SHEBOYGAN	0	.00	107,294	.14	107,294	.07
67	FALL RIVER	0	.00	102,967	.13	102,967	.07
68	SACRAMENTO	98,350	.12	0	.00	98,350	.06
69	CORPUS CHRISTI	50,254	.06	43,175	.05	93,429	.06
70	GRAND HAVEN	0	.00	86,732	.11	86,732	.05
71	FAJARDO	48,964	.06	35,521	.04	84,485	.05
72	CHARLETTE AMALIE	25,832	.03	56,556	.07	82,388	.05
73	WILMINGTON, N.C.	47	.00	60,451	.08	60,498	.04
74	NORFOLK	42,713	.05	17,534	.02	60,247	.04
75	NEW HAVEN	0	.00	51,819	.07	51,819	.03
76	PHILADELPHIA	1,283	.00	49,824	.06	51,107	.03
77	LONGVIEW	0	.00	50,254	.06	50,254	.03
78	STOCKTON	0	.00	45,825	.06	45,825	.03
79	SAVANNAH	23,589	.03	7,705	.01	31,294	.02
80	GALVESTON	0	.00	30,500	.04	30,500	.02
81	VENTURA	54	.00	25,999	.03	26,053	.02
82	PORT HUENEME	25,975	.03	30	.00	26,005	.02
83	OSWEGO	0	.00	25,343	.03	25,343	.02
84	PONCE	15,344	.02	7,880	.01	23,224	.01
85	KALAMA	20,100	.03	0	.00	20,100	.01
86	ALEUTIAN ISLANDS	10,416	.01	9,342	.01	19,758	.01

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REPORT YEAR 1982
U.S. DOMESTIC OCEAN AND GREAT LAKES WATERBORNE COMMERCE
PORT TONNAGE SHIPPED/RECEIVED BY SELF PROPELLED DRY CARGO VESSEL
(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
87	HOPEWELL	18,614	.02	0	.00	18,614	.01
88	ANCHORAGE/UNIMAK	5,300	.01	11,138	.01	16,438	.01
89	MELLVILLE	5,905	.01	7,609	.01	13,514	.01
90	STURGEON BAY	6,095	.01	6,095	.01	12,190	.01
91	NO. OF NOME	300	.00	7,217	.01	7,517	.00
92	MAYAGUEZ	6,908	.01	0	.00	6,908	.00
93	KINNEGNAK	2,281	.00	4,354	.01	6,635	.00
94	ST. LAWRENCE ISL.	847	.00	4,805	.01	5,652	.00
95	KETCHIKAN	1,758	.00	2,144	.00	3,902	.00
96	VALDEZ	3,289	.00	397	.00	3,686	.00
97	BANGOR	2,282	.00	1,211	.00	3,493	.00
98	KING COVE	788	.00	2,534	.00	3,322	.00
99	NEW LONDON	1,711	.00	1,335	.00	3,046	.00
100	ROCKLAND	562	.00	1,956	.00	2,518	.00
101	DILLINGHAM	1,271	.00	896	.00	2,167	.00
102	NOME	1,300	.00	837	.00	2,137	.00
103	GRAND PORTAGE	712	.00	1,154	.00	1,866	.00
104	YUKON RIVER	2	.00	1,450	.00	1,452	.00
105	EASTPORT	691	.00	691	.00	1,382	.00
106	PROVIDENCE	1,328	.00	0	.00	1,328	.00
107	MACKINAC ISLAND	108	.00	1,220	.00	1,328	.00
108	HOOPER BAY	0	.00	1,028	.00	1,028	.00
109	PELICAN	710	.00	266	.00	976	.00
110	KENAI	540	.00	275	.00	815	.00
111	ST. MICHAEL	268	.00	501	.00	769	.00
112	NAKNEK	150	.00	590	.00	740	.00
113	BETHEL	557	.00	175	.00	732	.00
114	OLD HARBOR	445	.00	78	.00	523	.00
115	ST. AUGUSTINE	508	.00	0	.00	508	.00
116	CHEBOYGAN	448	.00	52	.00	500	.00
117	BELFAST	292	.00	0	.00	292	.00
118	BELLINGHAM	0	.00	263	.00	263	.00
119	BROWNSVILLE + PT. ISABEL	0	.00	254	.00	254	.00
120	PORT TOWNSEND	252	.00	0	.00	252	.00
121	SITKA	66	.00	150	.00	216	.00
122	WRANGELL	1	.00	65	.00	66	.00
123	EGEGIK	0	.00	50	.00	50	.00
124	BATH	33	.00	4	.00	37	.00
125	PORTLAND, ME.	4	.00	2	.00	6	.00
	+ TOTAL FOR ALL PORTS	78,964,888	50.00	78,964,888	50.00	157,929,776	100.00

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REPORT YEAR 1982
U.S. DOMESTIC OCEAN AND GREAT LAKES WATERBORNE COMMERCE
PORT TONNAGE SHIPPED/RECEIVED BY SELF PROPELLED TANKER VESSEL
(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
1	VALDEZ	89,957,053	39.57	23,748	.01	89,980,801	19.79
2	PUERTO ARMUELLES	29,679,339	13.06	37,914,993	16.68	67,594,332	14.87
3	NEW YORK	5,711,035	2.51	21,081,468	9.27	26,792,503	5.89
4	CHRISTIANSTED	16,102,405	7.08	5,997,689	2.64	22,100,094	4.86
5	LONG BEACH	621,053	.27	16,560,408	7.29	17,181,461	3.78
6	HOUSTON	8,231,449	3.62	7,199,939	3.17	15,431,388	3.39
7	LOS ANGELES	4,209,775	1.85	9,868,208	4.34	14,077,983	3.10
8	CARQUINEZ STRAIT	4,761,505	2.09	8,501,387	3.74	13,262,892	2.92
9	BATON ROUGE	5,757,180	2.53	6,633,858	2.92	12,391,038	2.73
10	BELLINGHAM	1,371,871	.60	10,048,041	4.42	11,419,912	2.51
11	NEW ORLEANS	8,121,168	3.57	1,162,420	.51	9,283,588	2.04
12	RICHMOND, CALIF.	3,445,886	1.52	5,621,032	2.47	9,066,918	1.99
13	BEAUMONT	4,606,340	2.03	4,203,458	1.85	8,809,798	1.94
14	CORPUS CHRISTI	5,088,712	2.24	2,923,781	1.29	8,012,493	1.76
15	EL SEGUNDO	2,214,623	.97	5,280,417	2.32	7,495,040	1.65
16	TEXAS CITY	1,598,869	.70	4,568,518	2.01	6,167,387	1.36
17	TAMPA	44,482	.02	5,323,505	2.34	5,367,987	1.18
18	BOSTON	220,369	.10	4,621,390	2.03	4,841,759	1.06
19	PORT ARTHUR	3,392,853	1.49	1,390,763	.61	4,783,616	1.05
20	ANACORTES	1,616,219	.71	3,099,318	1.36	4,715,537	1.04
21	MORRO	4,619,261	2.03	0	.00	4,619,261	1.02
22	HUMACAO	1,448,043	.64	3,065,788	1.35	4,513,831	.99
23	PORT EVERGLADES	373,829	.16	3,960,597	1.74	4,334,426	.95
24	FREEPORT	914,227	.40	3,308,962	1.46	4,223,189	.93
25	ANCHORAGE/UNIMAK	3,110,028	1.37	938,987	.41	4,049,015	.89
26	JACKSONVILLE	3,958	.00	3,349,789	1.47	3,353,747	.74
27	PHILADELPHIA	1,454,016	.64	1,892,347	.83	3,346,363	.74
28	GRAMERCY	531,076	.23	2,745,352	1.21	3,276,428	.72
29	SAN PABLO BAY	1,372,651	.60	1,840,730	.81	3,213,381	.71
30	HONOLULU	234,255	.10	2,924,983	1.29	3,159,238	.69
31	PORTLAND, ORE.	90,433	.04	3,021,426	1.33	3,111,859	.68
32	MARCUS HOOK	181,603	.08	2,899,955	1.28	3,081,558	.68
33	SAN FRANCISCO	57,685	.03	2,962,327	1.30	3,020,012	.66
34	PAULSBORO	1,015,614	.45	1,789,044	.79	2,804,688	.62
35	DESTREHAN	2,178,589	.96	288,426	.13	2,467,015	.54
36	LAKE CHARLES	943,300	.41	1,289,206	.57	2,232,506	.49
37	PASCAGOULA	1,072,723	.47	1,073,100	.47	2,145,823	.47
38	SANTA BARBARA CHANNEL ISLAND	2,079,849	.91	0	.00	2,079,849	.46
39	SAN JUAN	775,102	.34	1,206,709	.53	1,981,811	.44
40	PROVIDENCE	158,442	.07	1,807,789	.80	1,966,231	.43
41	CHARLESTON	61,448	.03	1,667,607	.73	1,729,055	.38
42	GUAYANILLA	623,302	.27	1,027,258	.45	1,650,560	.36
43	WILMINGTON, N.C.	35,594	.02	1,588,723	.70	1,624,317	.36

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REPORT YEAR 1982
U.S. DOMESTIC OCEAN AND GREAT LAKES WATERBORNE COMMERCE
PORT TONNAGE SHIPPED/RECEIVED BY SELF PROPELLED TANKER VESSEL
(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
44	BALTIMORE	77,294	.03	1,510,870	.66	1,588,164	.35
45	PORTLAND, ME.	223,512	.10	1,255,515	.55	1,479,027	.33
46	SAN DIEGO	68,867	.03	1,395,085	.61	1,463,952	.32
47	NEW HAVEN	60,610	.03	1,403,296	.62	1,463,906	.32
48	SEATTLE	97,400	.04	1,324,381	.58	1,421,781	.31
49	SUISUN BAY	836,971	.37	568,434	.25	1,405,405	.31
50	BROWNSVILLE + PT. ISABEL	1,160,094	.51	154,450	.07	1,314,544	.29
51	CAMDEN	10,983	.00	1,038,065	.46	1,049,048	.23
52	PORT ANGELES	0	.00	955,545	.42	955,545	.21
53	BRIDGEPORT	1,825	.00	937,730	.41	939,555	.21
54	WILMINGTON, DEL.	360,786	.16	521,816	.23	882,602	.19
55	NORFOLK	4,553	.00	798,868	.35	803,421	.18
56	PORT SAN LUIS	704,332	.31	82,636	.04	786,968	.17
57	GALVESTON	697,070	.31	50,027	.02	747,097	.16
58	BEAUFORT-MOREHEAD CITY	16,850	.01	673,324	.30	690,174	.15
59	SAVANNAH	14,228	.01	632,996	.28	647,224	.14
60	EAST CHICAGO	615,073	.27	31,523	.01	646,596	.14
61	PORTSMOUTH, N. H.	13,865	.01	553,656	.24	567,521	.12
62	VENTURA	365,342	.16	131,926	.05	497,268	.11
63	FALL RIVER	49,125	.02	429,700	.19	478,825	.11
64	ST. ROSE	351,358	.15	104,693	.05	456,051	.10
65	TACOMA	25,521	.01	424,089	.19	449,610	.10
66	KENAI	431,399	.19	0	.00	431,399	.09
67	WEST PALM BEACH	0	.00	395,207	.17	395,207	.09
68	ALBANY	0	.00	325,766	.14	325,766	.07
69	ALEUTIAN ISLANDS	6,586	.00	307,216	.14	313,802	.07
70	BUFFALO	80,251	.04	217,740	.10	297,991	.07
71	ANCHORAGE	19,099	.01	262,393	.12	281,492	.06
72	NEW LONDON	47,525	.02	220,824	.10	268,349	.06
73	HARTFORD	2,122	.00	260,999	.11	263,121	.06
74	ESCANABA	0	.00	251,020	.11	251,020	.06
75	BANGOR	968	.00	243,648	.11	244,616	.05
76	NEWPORT NEWS	0	.00	240,896	.11	240,896	.05
77	PORT CANAVERAL	0	.00	215,323	.09	215,323	.05
78	LONGVIEW	0	.00	204,290	.09	204,290	.04
79	PENSACOLA	199,031	.09	0	.00	199,031	.04
80	SALEM	1,883	.00	185,776	.08	187,659	.04
81	TRAVERSE CITY	0	.00	175,896	.08	175,896	.04
82	TOLEDO	162,593	.07	7,640	.00	170,233	.04
83	POTOMAC RIV.BELOW WASH. D.C.	5,907	.00	157,241	.07	163,148	.04
84	MOBILE	154,492	.07	2,006	.00	156,498	.03
85	SACRAMENTO	0	.00	153,297	.07	153,297	.03
86	MIAMI	0	.00	150,321	.07	150,321	.03

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(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
87	DETROIT	127,452	.06	18,570	.01	146,022	.03
88	LOUISIANA OFFSHORE OIL PORT	33,069	.01	83,398	.04	116,467	.03
89	COOS BAY	0	.00	116,080	.05	116,080	.03
90	FAJARDO	1,200	.00	102,407	.05	103,607	.02
91	MACKINAC ISLAND	0	.00	102,149	.04	102,149	.02
92	SAN JOAQUIN RIVER	51,669	.02	40,881	.02	92,550	.02
93	EUREKA	0	.00	92,498	.04	92,498	.02
94	GLOUCESTER CITY, N.J.	0	.00	83,349	.04	83,349	.02
95	HOPEWELL	0	.00	71,958	.03	71,958	.02
96	CLEVELAND	12,629	.01	55,670	.02	68,299	.02
97	ALPENA	0	.00	64,743	.03	64,743	.01
98	CHEBOYGAN	0	.00	64,179	.03	64,179	.01
99	KODIAK	0	.00	61,955	.03	61,955	.01
100	BELFAST	[illegible]	.00	53,700	.02	55,144	.01
101	MELLVILLE	[illegible]	.00	45,422	.02	55,054	.01
102	KETCHIKAN	[illegible]	.00	49,347	.02	50,466	.01
103	GEORGETOWN	[illegible]	.00	50,162	.02	50,162	.01
104	OAKLAND + ALAMEDA	[illegible]	.00	47,556	.02	47,556	.01
105	NEW BEDFORD	1,76[illegible]	.00	43,743	.02	45,539	.01
106	PLYMOUTH	0	.00	41,219	.02	41,219	.01
107	SAULT STE. MARIE	0	.00	38,521	.02	38,521	.01
108	PORT HUENEME	0	.00	38,077	.02	38,077	.01
109	ASTORIA	0	.00	36,557	.02	36,557	.01
110	STOCKTON	0	.00	35,453	.02	35,453	.01
111	MARQUETTE	5,771	.00	28,178	.01	33,949	.01
112	KEY WEST	0	.00	33,370	.01	33,370	.01
113	SAGINAW-BAY CITY	25,970	.01	3,440	.00	29,410	.01
114	ST. PETERSBURG	0	.00	27,072	.01	27,072	.01
115	PORT HURON	23,113	.01	0	.00	23,113	.01
116	SUPERIOR	22,963	.01	0	.00	22,963	.01
117	JUNEAU	0	.00	22,096	.01	22,096	.00
118	CHARLETTE AMALIE	20,720	.01	0	.00	20,720	.00
119	NEWPORT	0	.00	16,658	.01	16,658	.00
120	HILO	0	.00	16,090	.01	16,090	.00
121	OSWEGO	0	.00	15,430	.01	15,430	.00
122	GREEN BAY	13,130	.01	0	.00	13,130	.00
123	WHITTIER	1,369	.00	11,611	.01	12,980	.00
124	SEWARD	0	.00	12,895	.01	12,895	.00
125	VANCOUVER	0	.00	11,516	.01	11,516	.00
126	MUSKEGON	0	.00	11,095	.00	11,095	.00
127	KAHULUI	0	.00	9,181	.00	9,181	.00
128	ABERDEEN-HOQUIAM	5,898	.00	0	.00	5,898	.00
129	RICHMOND-PETERSBURG	0	.00	5,810	.00	5,810	.00

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(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
130	JONESPORT	0	.00	5,706	.00	5,706	.00
131	KING COVE	0	.00	5,173	.00	5,173	.00
132	CHESTER	4,681	.00	0	.00	4,681	.00
133	PORT TOWNSEND	0	.00	4,267	.00	4,267	.00
134	SEARSPORT	0	.00	3,479	.00	3,479	.00
135	DE TOUR VILLAGE	0	.00	3,151	.00	3,151	.00
136	EASTPORT	0	.00	2,072	.00	2,072	.00
137	PONCE	0	.00	1,200	.00	1,200	.00
138	SITKA	0	.00	962	.00	962	.00
139	OLD HARBOR	0	.00	768	.00	768	.00
	* TOTAL FOR ALL PORTS	227,318,384	50.00	227,318,384	50.00	454,636,768	100.00

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PORT TONNAGE SHIPPED/RECEIVED BY NON-SELF PROPELLED DRY CARGO BARGE
(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
1	TAMPA	4,307,335	20.62	3,191,902	15.28	7,499,237	17.95
2	NEW YORK	2,513,698	12.03	2,897,645	13.87	5,411,343	12.95
3	NEW ORLEANS	2,846,076	13.62	229,696	1.10	3,075,772	7.36
4	HONOLULU	1,490,123	7.13	1,303,899	6.24	2,794,022	6.69
5	GRAMERCY	33,420	.16	2,183,534	10.45	2,216,954	5.31
6	SAN JUAN	219,554	1.05	1,246,297	5.97	1,465,851	3.51
7	NEW HAVEN	1,120,705	5.36	109,740	.53	1,230,445	2.94
8	SEATTLE	997,086	4.77	200,824	.96	1,197,910	2.87
9	KAHULUI	555,995	2.66	633,523	3.03	1,189,518	2.85
10	DESTREHAN	342,481	1.64	780,175	3.73	1,122,656	2.69
11	HILO	377,838	1.81	613,198	2.93	991,036	2.37
12	ALBANY	970,010	4.64	8	.00	970,018	2.32
13	HOUSTON	193,638	.93	670,562	3.21	864,200	2.07
14	BRIDGEPORT	26,811	.13	821,079	3.93	847,890	2.03
15	JACKSONVILLE	538,978	2.58	287,545	1.38	826,523	1.98
16	WEST PALM BEACH	588,315	2.82	21,770	.10	610,085	1.46
17	BALTIMORE	128,493	.62	475,497	2.28	603,990	1.45
18	NAWILIWILI-PT. ALLEN	189,077	.90	318,154	1.52	507,231	1.21
19	GARY	26,814	.13	440,916	2.11	467,730	1.12
20	DULUTH	440,916	2.11	0	.00	440,916	1.06
21	PASCAGOULA	11,230	.05	399,026	1.91	410,256	.98
22	PORTLAND, ORE.	166,221	.80	181,682	.87	347,903	.83
23	BOSTON	500	.00	328,958	1.57	329,458	.79
24	WHITTIER	7,567	.04	297,818	1.43	305,385	.73
25	ANCHORAGE	8,359	.04	277,743	1.33	286,102	.68
26	LAKE CHARLES	213,153	1.02	50,102	.24	263,255	.63
27	LONG BEACH	79,960	.38	170,006	.81	249,966	.60
28	KENAI	221,673	1.06	13,781	.07	235,454	.56
29	KETCHIKAN	47,418	.23	186,834	.89	234,252	.56
30	BATON ROUGE	145,238	.70	86,237	.41	231,475	.55
31	COOS BAY	155,484	.74	61,725	.30	217,209	.52
32	REDWOOD CITY	197,654	.95	0	.00	197,654	.47
33	ALEUTIAN ISLANDS	129,392	.62	54,251	.26	183,643	.44
34	SAVANNAH	47,710	.23	109,775	.53	157,485	.38
35	CLEVELAND	53,500	.26	97,728	.47	151,228	.36
36	NORFOLK	10,179	.05	135,899	.65	146,078	.35
37	SAN DIEGO	7,763	.04	137,852	.66	145,615	.35
38	NEWPORT NEWS	133,301	.64	210	.00	133,511	.32
39	PORTLAND, ME.	0	.00	133,231	.64	133,231	.32
40	PROVIDENCE	110	.00	130,547	.62	130,657	.31
41	BUFFALO	15,500	.07	93,020	.45	108,520	.26
42	CAMDEN	86,167	.41	19,081	.09	105,248	.25
43	BELLINGHAM	104,620	.50	562	.00	105,182	.25

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U.S. DOMESTIC OCEAN AND GREAT LAKES WATERBORNE COMMERCE
PORT TONNAGE SHIPPED/RECEIVED BY NON-SELF PROPELLED DRY CARGO BARGE
(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
44	PORT EVERGLADES	1,150	.01	103,784	.50	104,934	.25
45	LOS ANGELES	69,933	.33	34,831	.17	104,764	.25
46	NO. OF NOME	11,118	.05	85,565	.41	96,683	.23
47	GUANICA	57,432	.27	29,041	.14	86,473	.21
48	BETHEL	33,033	.16	52,755	.25	85,788	.21
49	JUNEAU	8,869	.04	76,007	.36	84,876	.20
50	CHICAGO	27,650	.13	55,400	.27	83,050	.20
51	MOBILE	78,337	.37	1,200	.01	79,537	.19
52	SITKA	32,257	.15	41,789	.20	74,046	.18
53	EAST CHICAGO	26,661	.13	46,996	.22	73,657	.18
54	STOCKTON	0	.00	73,098	.35	73,098	.17
55	CARQUINEZ STRAIT	0	.00	72,968	.35	72,968	.17
56	PHILADELPHIA	33,738	.16	36,921	.18	70,659	.17
57	BENTON HARBOR	0	.00	65,750	.31	65,750	.16
58	LONGVIEW	63,757	.31	0	.00	63,757	.15
59	MAYAGUEZ	0	.00	60,855	.29	60,855	.15
60	NAKNEK	8,652	.04	50,019	.24	58,671	.14
61	MUSKEGON	58,231	.28	0	.00	58,231	.14
62	SUPERIOR	57,120	.27	0	.00	57,120	.14
63	PORT LAVACA	0	.00	52,282	.25	52,282	.13
64	OAKLAND + ALAMEDA	34,985	.17	15,378	.07	50,363	.12
65	SACRAMENTO	0	.00	49,296	.24	49,296	.12
66	TACOMA	21,745	.10	25,022	.12	46,767	.11
67	NEW LONDON	13,129	.06	33,346	.16	46,475	.11
68	DETROIT	27,400	.13	15,500	.07	42,900	.10
69	BEAUMONT	40,000	.19	1,327	.01	41,327	.10
70	MIAMI	2,625	.01	38,100	.18	40,725	.10
71	HOPEWELL	32,458	.16	7,855	.04	40,313	.10
72	DILLINGHAM	3,269	.02	34,493	.17	37,762	.09
73	PORT CANAVERAL	0	.00	36,654	.18	36,654	.09
74	KINNEGNAK	723	.00	35,769	.17	36,492	.09
75	ANCHORAGE/UNIMAK	15,220	.07	20,794	.10	36,014	.09
76	RICHMOND, CALIF.	29,416	.14	6,305	.03	35,721	.09
77	ABERDEEN-HOQUIAM	31,797	.15	0	.00	31,797	.08
78	KODIAK	8,929	.04	22,052	.11	30,981	.07
79	ESCANABA	20,851	.10	9,800	.05	30,651	.07
80	ROGERS CITY	28,368	.14	0	.00	28,368	.07
81	WILMINGTON, N.C.	26,410	.13	0	.00	26,410	.06
82	MORGAN CITY	23,115	.11	2,448	.01	25,563	.06
83	EVERETT	25,167	.12	0	.00	25,167	.06
84	GALVESTON	0	.00	23,524	.11	23,524	.06
85	NEWPORT, ORE.	20,594	.10	0	.00	20,594	.05
86	SAULT STE. MARIE	19,796	.09	0	.00	19,796	.05

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(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
87	VALDEZ	1,227	.01	17,466	.08	18,693	.04
88	FALL RIVER	0	.00	17,000	.08	17,000	.04
89	PRESQUE ISLE	17,000	.08	0	.00	17,000	.04
90	SUISUN BAY	16,194	.08	0	.00	16,194	.04
91	WILMINGTON, DEL.	558	.00	14,328	.07	14,886	.04
92	GEORGETOWN	0	.00	14,447	.07	14,447	.03
93	EVANSVILLE	800	.00	13,429	.06	14,229	.03
94	NOME	1,196	.01	11,096	.05	12,292	.03
95	PETERSBURG, ALASKA	6,704	.03	5,413	.03	12,117	.03
96	MARQUETTE	11,357	.05	450	.00	11,807	.03
97	SALEM	11,700	.06	0	.00	11,700	.03
98	BRUNSWICK	11,387	.05	0	.00	11,387	.03
99	MACKINAC ISLAND	9,487	.05	0	.00	9,487	.02
100	TRAVERSE CITY	0	.00	9,487	.05	9,487	.02
101	KING COVE	5,660	.03	2,917	.01	8,577	.02
102	SHEBOYGAN	0	.00	8,250	.04	8,250	.02
103	CHATTANOOGA	7,928	.04	0	.00	7,928	.02
104	POTOMAC RIV.BELOW WASH. D.C.	0	.00	7,090	.03	7,090	.02
105	SEWARD	2,061	.01	4,984	.02	7,045	.02
106	ANACORTES	6,799	.03	0	.00	6,799	.02
107	PORT HUENEME	0	.00	6,622	.03	6,622	.02
108	SAN FRANCISCO	6,500	.03	0	.00	6,500	.02
109	GUAYANILLA	0	.00	6,315	.03	6,315	.02
110	WRANGELL	473	.00	5,774	.03	6,247	.01
111	CORPUS CHRISTI	2,756	.01	2,844	.01	5,600	.01
112	ST. LOUIS	300	.00	5,258	.03	5,558	.01
113	VENTURA	5,295	.03	0	.00	5,295	.01
114	NEW BEDFORD	5,029	.02	37	.00	5,066	.01
115	VANCOUVER	4,400	.02	0	.00	4,400	.01
116	ST. LAWRENCE ISL.	19	.00	4,151	.02	4,170	.01
117	PELICAN	2,164	.01	1,967	.01	4,131	.01
118	GRAND PORTAGE	900	.00	2,175	.01	3,075	.01
119	CINCINNATI	0	.00	2,698	.01	2,698	.01
120	CHARLESTON	440	.00	2,228	.01	2,668	.01
121	TULSA	2,606	.01	0	.00	2,606	.01
122	FORT SMITH	0	.00	2,602	.01	2,602	.01
123	ST. AUGUSTINE	2,484	.01	0	.00	2,484	.01
124	EGEGIK	882	.00	1,411	.01	2,293	.01
125	PITTSBURG, PA.	1,190	.01	1,023	.00	2,213	.01
126	ASTORIA	0	.00	2,053	.01	2,053	.00
127	PENSACOLA	1,685	.01	69	.00	1,754	.00
128	PEORIA	0	.00	1,373	.01	1,373	.00
129	YUKON RIVER	15	.00	1,348	.01	1,363	.00

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RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
130	VICKSBURG	0	.00	1,307	.01	1,307	.00
131	KEY WEST	0	.00	1,150	.01	1,150	.00
132	PANAMA CITY	695	.00	300	.00	995	.00
133	HOOPER BAY	2	.00	789	.00	791	.00
134	PORTSMOUTH, N. H.	0	.00	710	.00	710	.00
135	BOCAGRANDE	520	.00	150	.00	670	.00
136	BATH	0	.00	650	.00	650	.00
137	SAN PABLO BAY	0	.00	525	.00	525	.00
138	FORT PIERCE	0	.00	450	.00	450	.00
139	APALACHICOLA	0	.00	400	.00	400	.00
140	ST. MICHAEL	15	.00	370	.00	385	.00
141	MEMPHIS	330	.00	0	.00	330	.00
142	PAULSBORO	0	.00	300	.00	300	.00
143	BEAUFORT-MOREHEAD CITY	300	.00	0	.00	300	.00
144	ALAKANUK	0	.00	253	.00	253	.00
145	ELIZABETH CITY	0	.00	210	.00	210	.00
146	GUAM ISLAND	0	.00	123	.00	123	.00
147	AVONDALE	0	.00	70	.00	70	.00
148	MARSHALL	0	.00	60	.00	60	.00
149	MCGRATH POINT	19	.00	8	.00	27	.00
150	PLYMOUTH	8	.00	0	.00	8	.00
151	FAIRBANKS	4	.00	0	.00	4	.00
	* TOTAL FOR ALL PORTS	20,893,086	50.00	20,893,086	50.00	41,786,172	100.00

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RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
1	NEW YORK	20,533,483	34.95	8,208,484	13.97	28,741,967	24.46
2	TAMPA	5,434	.01	7,118,565	12.12	7,123,999	6.06
3	BOSTON	580,480	.99	6,019,178	10.25	6,599,658	5.62
4	NEW HAVEN	532,678	.91	4,976,426	8.47	5,509,104	4.69
5	PORT EVERGLADES	115,377	.20	4,896,137	8.33	5,011,514	4.27
6	DESTREHAN	3,658,378	6.23	50,200	.09	3,708,578	3.16
7	PASCAGOULA	3,509,774	5.97	171,391	.29	3,681,165	3.13
8	PROVIDENCE	206,807	.35	3,053,367	5.20	3,260,174	2.77
9	WILMINGTON, DEL.	2,600,868	4.43	50,333	.09	2,651,201	2.26
10	BRIDGEPORT	121,381	.21	2,233,962	3.80	2,355,343	2.00
11	PAULSBORO	2,085,527	3.55	206,530	.35	2,292,057	1.95
12	MARCUS HOOK	1,996,696	3.40	57,530	.10	2,054,226	1.75
13	SAN JUAN	898,219	1.53	1,007,371	1.71	1,905,590	1.62
14	HUMACAO	1,854,546	3.16	0	.00	1,854,546	1.58
15	PORTLAND, ME.	30,531	.05	1,803,827	3.07	1,834,358	1.56
16	LAKE CHARLES	1,765,277	3.00	16,160	.03	1,781,437	1.52
17	PHILADELPHIA	1,458,035	2.48	187,470	.32	1,645,505	1.40
18	JACKSONVILLE	8,300	.01	1,626,261	2.77	1,634,561	1.39
19	CORPUS CHRISTI	1,526,588	2.60	39,348	.07	1,565,936	1.33
20	FALL RIVER	39,664	.07	1,372,301	2.34	1,411,965	1.20
21	HARTFORD	0	.00	1,282,516	2.18	1,282,516	1.09
22	BEAUMONT	1,014,152	1.73	189,166	.32	1,203,318	1.02
23	CHICAGO	196,286	.33	1,004,156	1.71	1,200,442	1.02
24	TEXAS CITY	1,050,466	1.79	77,311	.13	1,127,777	.96
25	NEWPORT NEWS	1,066,841	1.82	48,518	.08	1,115,359	.95
26	PORT ARTHUR	1,050,453	1.79	48,517	08	1,098,970	.94
27	SAVANNAH	510,129	.87	558,827	.95	1,068,956	.91
28	HOUSTON	865,501	1.47	202,108	.34	1,067,609	.91
29	EAST CHICAGO	944,132	1.61	115,030	.20	1,059,162	.90
30	MAYAGUEZ	0	.00	1,001,288	1.70	1,001,288	.85
31	CHARLESTON	9,061	.02	910,722	1.55	919,783	.78
32	BATON ROUGE	851,148	1.45	67,616	.12	918,764	.78
33	NEW ORLEANS	849,044	1.45	26,982	.05	876,026	.75
34	WILMINGTON, N.C.	42,896	.07	817,225	1.39	860,121	.73
35	NEW LONDON	8,387	.01	788,505	1.34	796,892	.68
36	MIAMI	310,185	.53	438,245	.75	748,430	.64
37	CHRISTIANSTED	649,699	1.11	92,321	.16	742,020	.63
38	BALTIMORE	251,294	.43	474,880	.81	726,174	.62
39	HONOLULU	673,597	1.15	4,612	.01	678,209	.58
40	CARRABELLE	261,366	.44	386,202	.66	647,568	.55
41	MOBILE	484,849	.83	151,525	.26	636,374	.54
42	VENTURA	572,111	.97	25,990	.04	598,101	.51
43	ALBANY	80,069	.14	457,032	.78	537,101	.46

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RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
44	LOS ANGELES	95,769	.16	403,861	.69	499,630	.43
45	SEATTLE	374,951	.64	71,496	.12	446,447	.38
46	LONG BEACH	74,314	.13	365,657	.62	439,971	.37
47	EUREKA	0	.00	374,743	.64	374,743	.32
48	GUAYANILLA	154,026	.26	202,505	.34	356,531	.30
49	PORTSMOUTH, N. H.	0	.00	352,612	.60	352,612	.30
50	RICHMOND, CALIF.	186,343	.32	158,914	.27	345,257	.29
51	BELFAST	15,609	.03	327,655	.56	343,264	.29
52	MUSKEGON	262,958	.45	43,120	.07	306,078	.26
53	KAHULUI	3,735	.01	288,026	.49	291,761	.25
54	SUISUN BAY	243,217	.41	33,942	.06	277,159	.24
55	HILO	0	.00	276,200	.47	276,200	.24
56	PORTLAND, ORE.	59,561	.10	190,478	.32	250,039	.21
57	FREEPORT	26,960	.05	214,795	.37	241,755	.21
58	SALEM	0	.00	229,578	.39	229,578	.20
59	PUERTO ARMUELLES	224,396	.38	0	.00	224,396	.19
60	KETCHIKAN	14,304	.02	209,242	.36	223,546	.19
61	BELLINGHAM	175,559	.30	36,000	.06	211,559	.18
62	NORFOLK	43,929	.07	126,202	.21	170,131	.14
63	ANCHORAGE/UNIMAK	163,820	.28	0	.00	163,820	.14
64	VALDEZ	0	.00	161,483	.27	161,483	.14
65	DETROIT	89,329	.15	72,018	.12	161,347	.14
66	CHARLETTE AMALIE	6,960	.01	148,728	.25	155,688	.13
67	PORT CANAVERAL	0	.00	152,689	.26	152,689	.13
68	PLYMOUTH	73,386	.12	78,579	.13	151,965	.13
69	CARQUINEZ STRAIT	126,726	.22	19,666	.03	146,392	.12
70	BROWNSVILLE + PT. ISABEL	146,054	.25	0	.00	146,054	.12
71	ALEUTIAN ISLANDS	89,091	.15	43,399	.07	132,490	.11
72	BOCAGRANDE	0	.00	116,505	.20	116,505	.10
73	KEY WEST	0	.00	115,377	.20	115,377	.10
74	TACOMA	113,823	.19	0	.00	113,823	.10
75	POTOMAC RIV.BELOW WASH. D.C.	53,097	.09	56,309	.10	109,406	.09
76	NAWILIWILI-PT. ALLEN	0	.00	108,494	.18	108,494	.09
77	COOS BAY	0	.00	100,748	.17	100,748	.09
78	ESCANABA	3,025	.01	97,007	.17	100,032	.09
79	PORT HURON	80,049	.14	17,051	.03	97,100	.08
80	SITKA	11,435	.02	84,826	.14	96,261	.08
81	PENSACOLA	16,875	.03	77,344	.13	94,219	.08
82	CAMDEN	22,979	.04	69,798	.12	92,777	.08
83	TRAVERSE CITY	857	.00	89,199	.15	90,056	.08
84	GRAMERCY	69,671	.12	12,716	.02	82,387	.07
85	SEARSPORT	9,817	.02	71,282	.12	81,099	.07
86	BEAUFORT-MOREHEAD CITY	0	.00	77,427	.13	77,427	.07

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87	OSWEGO	0	.00	63,351	.11	63,351	.05
88	SAN PABLO BAY	62,174	.11	0	.00	62,174	.05
89	WEST PALM BEACH	9,075	.02	50,939	.09	60,014	.05
90	RICHMOND-PETERSBURG	0	.00	59,151	.10	59,151	.05
91	NEW BEDFORD	1,940	.00	56,752	.10	58,692	.05
92	TOLEDO	58,616	.10	0	.00	58,616	.05
93	NO. OF NOME	6,333	.01	50,560	.09	56,893	.05
94	BUFFALO	8,067	.01	36,346	.06	44,413	.04
95	BANGOR	0	.00	44,367	.08	44,367	.04
96	ALPENA	0	.00	41,074	.07	41,074	.03
97	ANACORTES	40,871	.07	0	.00	40,871	.03
98	MILWAUKEE	2,514	.00	38,321	.07	40,835	.03
99	LONGVIEW	26,200	.04	14,507	.02	40,707	.03
100	AVONDALE	35,845	.06	1,600	.00	37,445	.03
101	JUNEAU	2,695	.00	34,560	.06	37,255	.03
102	REDWOOD CITY	36,000	.06	0	.00	36,000	.03
103	BENTON HARBOR	34,142	.06	0	.00	34,142	.03
104	BURNS HARBOR	32,170	.05	0	.00	32,170	.03
105	NOME	0	.00	30,465	.05	30,465	.03
106	SAN DIEGO	3,879	.01	24,840	.04	28,719	.02
107	CLEVELAND	2,842	.00	25,169	.04	28,011	.02
108	PANAMA CITY	23,948	.04	0	.00	23,948	.02
109	ST. ROSE	22,156	.04	0	.00	22,156	.02
110	CHESTER	0	.00	17,554	.03	17,554	.01
111	STOCKTON	0	.00	16,571	.03	16,571	.01
112	SHEBOYGAN	0	.00	15,626	.03	15,626	.01
113	PETERSBURG, ALASKA	8,542	.01	7,049	.01	15,591	.01
114	ASTORIA	0	.00	15,576	.03	15,576	.01
115	MACKINAC ISLAND	0	.00	14,696	.03	14,696	.01
116	SAN JOAQUIN RIVER	0	.00	13,500	.02	13,500	.01
117	SYRACUSE	0	.00	12,781	.02	12,781	.01
118	SAULT STE. MARIE	3,557	.01	8,710	.01	12,267	.01
119	ST. MICHAEL	0	.00	11,793	.02	11,793	.01
120	NAKNEK	0	.00	11,774	.02	11,774	.01
121	CHEBOYGAN	0	.00	10,557	.02	10,557	.01
122	SAGINAW-BAY CITY	0	.00	10,328	.02	10,328	.01
123	MORGAN CITY	0	.00	9,768	.02	9,768	.01
124	MARQUETTE	155	.00	8,536	.01	8,691	.01
125	ANCHORAGE	0	.00	7,849	.01	7,849	.01
126	BRUNSWICK	7,336	.01	0	.00	7,336	.01
127	WRANGELL	1,153	.00	5,939	.01	7,092	.01
128	WHITTIER	6,783	.01	0	.00	6,783	.01
129	DULUTH	0	.00	5,735	.01	5,735	.00

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REPORT YEAR 1982
U.S. DOMESTIC OCEAN AND GREAT LAKES WATERBORNE COMMERCE
PORT TONNAGE SHIPPED/RECEIVED BY NON-SELF PROPELLED TANK BARGE
(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
130	KINNEGNAK	0	.00	4,855	.01	4,855	.00
131	KALAMA	4,199	.01	0	.00	4,199	.00
132	FAJARDO	0	.00	4,199	.01	4,199	.00
133	PORT HUENEME	0	.00	4,140	.01	4,140	.00
134	REEDVILLE	3,489	.01	0	.00	3,489	.00
135	MELLVILLE	0	.00	3,316	.01	3,316	.00
136	SEWARD	0	.00	3,110	.01	3,110	.00
137	DILLINGHAM	0	.00	2,905	.00	2,905	.00
138	MANITOWOC	0	.00	2,514	.00	2,514	.00
139	AGUADILLA	0	.00	1,705	.00	1,705	.00
140	LEWES, DEL.	0	.00	1,630	.00	1,630	.00
141	SKAGWAY	0	.00	1,175	.00	1,175	.00
142	PONCE	0	.00	945	.00	945	.00
143	BETHEL	794	.00	0	.00	794	.00
144	HOPEWELL	0	.00	700	.00	700	.00
145	PELICAN	0	.00	177	.00	177	.00
146	GRAND PORTAGE	0	.00	155	.00	155	.00
147	HOOPER BAY	0	.00	133	.00	133	.00
	* TOTAL FOR ALL PORTS	58,747,809	50.00	58,747,809	50.00	117,495,618	100.00

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REPORT YEAR 1982
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PORT TONNAGE SHIPPED/RECEIVED BY ALL TYPE VESSELS
(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
1	VALDEZ	89,961,569	23.31	203,094	.05	90,164,663	11.68
2	PUERTO ARMUELLES	30,165,527	7.82	37,914,993	9.82	68,080,520	8.82
3	NEW YORK	30,209,864	7.83	32,809,083	8.50	63,018,947	8.16
4	CHRISTIANSTED	17,010,086	4.41	6,143,931	1.59	23,154,017	3.00
5	TAMPA	4,357,251	1.13	15,633,972	4.05	19,991,223	2.59
6	LONG BEACH	1,001,355	.26	17,100,447	4.43	18,101,802	2.35
7	HOUSTON	9,524,899	2.47	8,257,061	2.14	17,781,960	2.30
8	LOS ANGELES	5,034,878	1.30	10,562,040	2.74	15,596,918	2.02
9	CARQUINEZ STRAIT	4,888,231	1.27	9,312,676	2.41	14,200,907	1.84
10	BATON ROUGE	6,889,293	1.79	7,011,452	1.82	13,900,745	1.80
11	NEW ORLEANS	12,143,243	3.15	1,494,610	.39	13,637,853	1.77
12	SUPERIOR	12,605,235	3.27	561,816	.15	13,167,051	1.71
13	TOLEDO	6,835,356	1.77	5,330,958	1.38	12,166,314	1.58
14	DULUTH	11,283,288	2.92	797,191	.21	12,080,479	1.57
15	BOSTON	802,580	.21	11,124,362	2.88	11,926,942	1.55
16	BELLINGHAM	1,652,050	.43	10,084,866	2.61	11,736,916	1.52
17	EAST CHICAGO	1,595,166	.41	9,788,198	2.54	11,383,364	1.47
18	DETROIT	347,748	.09	10,904,794	2.83	11,252,542	1.46
19	BEAUMONT	5,660,492	1.47	4,393,951	1.14	10,054,443	1.30
20	CORPUS CHRISTI	6,668,310	1.73	3,009,148	.78	9,677,458	1.25
21	HONOLULU	3,475,835	.90	6,135,986	1.59	9,611,821	1.25
22	PORT EVERGLADES	490,356	.13	8,960,518	2.32	9,450,874	1.22
23	RICHMOND, CALIF.	3,661,645	.95	5,786,251	1.50	9,447,896	1.22
24	SAN JUAN	2,809,817	.73	5,969,548	1.55	8,779,365	1.14
25	ESCANABA	8,042,521	2.08	673,811	.17	8,716,332	1.13
26	NEW HAVEN	1,713,993	.44	6,541,281	1.69	8,255,274	1.07
27	EL SEGUNDO	2,214,623	.57	5,280,417	1.37	7,495,040	.97
28	DESTREHAN	6,179,448	1.60	1,118,801	.29	7,298,249	.95
29	TEXAS CITY	2,649,335	.69	4,645,829	1.20	7,295,164	.95
30	CLEVELAND	390,663	.10	6,683,184	1.73	7,073,847	.92
31	HUMACAO	3,302,589	.86	3,065,788	.79	6,368,377	.83
32	SILVER BAY	6,150,561	1.59	199,983	.05	6,350,544	.82
33	JACKSONVILLE	956,065	.25	5,370,972	1.39	6,327,037	.82
34	PASCAGOULA	4,593,727	1.19	1,643,517	.43	6,237,244	.81
35	CHICAGO	2,815,718	.73	3,156,736	.82	5,972,454	.77
36	PORT ARTHUR	4,443,306	1.15	1,439,280	.37	5,882,586	.76
37	GRAMERCY	634,167	.16	4,941,602	1.28	5,575,769	.72
38	PROVIDENCE	366,687	.10	4,991,703	1.29	5,358,390	.69
39	ALPENA	4,705,422	1.22	597,902	.15	5,303,324	.69
40	LORAIN	1,677,934	.43	3,613,811	.94	5,291,745	.69
41	MARCUS HOOK	2,178,299	.56	2,957,485	.77	5,135,784	.67
42	PHILADELPHIA	2,947,072	.76	2,166,562	.56	5,113,634	.66
43	PAULSBORO	3,101,171	.80	1,995,874	.52	5,097,045	.66

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REPORT YEAR 1982
U.S. DOMESTIC OCEAN AND GREAT LAKES WATERBORNE COMMERCE
PORT TONNAGE SHIPPED/RECEIVED BY ALL TYPE VESSELS
(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
44	GARY	37,114	.01	4,855,309	1.26	4,892,423	.63
45	ANACORTES	1,663,889	.43	3,099,318	.80	4,763,207	.62
46	MORRO	4,619,261	1.20	0	.00	4,619,261	.60
47	FREEPORT	941,187	.24	3,523,757	.91	4,464,944	.58
48	ROGERS CITY	3,930,577	1.02	372,363	.10	4,302,940	.56
49	LAKE CHARLES	2,921,730	.76	1,355,468	.35	4,277,198	.55
50	ANCHORAGE/UNIMAK	3,294,368	.85	970,919	.25	4,265,287	.55
51	BRIDGEPORT	150,017	.04	3,992,771	1.03	4,142,788	.54
52	SEATTLE	2,237,189	.58	1,780,430	.46	4,017,619	.52
53	PORTLAND, ORE.	388,468	.10	3,435,783	.89	3,824,251	.50
54	PORT HURON	103,162	.03	3,617,785	.94	3,720,947	.48
55	BALTIMORE	818,690	.21	2,860,992	.74	3,679,682	.48
56	WILMINGTON, DEL.	2,962,212	.77	586,477	.15	3,548 689	.46
57	BURNS HARBOR	76,550	.02	3,415,595	.89	3,492,145	.45
58	PORTLAND, ME.	254,047	.07	3,192,575	.83	3,446,622	.45
59	BUFFALO	642,846	.17	2,759,906	.72	3,402,752	.44
60	SAN PABLO BAY	1,434,825	.37	1,841,255	.48	3,276,080	.42
61	SAN FRANCISCO	64,185	.02	2,962,327	.77	3,026,512	.39
62	CHARLESTON	291,223	.08	2,664,772	.69	2,955,995	.38
63	MUSKEGON	716,419	.19	2,046,568	.53	2,762,987	.36
64	SANDUSKY	2,594,044	.67	54,261	.01	2,648,305	.34
65	WILMINGTON, N.C.	104,947	.03	2,466,399	.64	2,571,346	.33
66	MILWAUKEE	635,439	.16	1,809,766	.47	2,445,205	.32
67	MARQUETTE	895,407	.23	1,463,177	.38	2,358,584	.31
68	ASHTABULA	807,667	.21	1,438,488	.37	2,246,155	.29
69	GUAYANILLA	793,568	.21	1,340,173	.35	2,133,741	.28
70	SANTA BARBARA CHANNEL ISLAND	2,079,849	.54	0	.00	2,079,849	.27
71	FALL RIVER	88,789	.02	1,921,968	.50	2,010,757	.26
72	KAHULUI	914,530	.24	1,041,092	.27	1,955,622	.25
73	SAVANNAH	595,656	.15	1,309,303	.34	1,904,959	.25
74	ANCHORAGE	141,777	.04	1,722,601	.45	1,864,378	.24
75	ALBANY	1,050,079	.27	782,806	.20	1,832,885	.24
76	HILO	760,093	.20	1,024,400	.27	1,784,493	.23
77	GREEN BAY	13,130	.00	1,764,734	.46	1,777,864	.23
78	CONNEAUT	1,360,551	.35	413,869	.11	1,774,420	.23
79	SUISUN BAY	1,096,382	.28	602,376	.16	1,698,758	.22
80	SAN DIEGO	80,509	.02	1,557,777	.40	1,638,286	.21
81	HARTFORD	2,122	.00	1,543,515	.40	1,545,637	.20
82	NEWPORT NEWS	1,200,142	.31	289,624	.08	1,489,766	.19
83	BROWNSVILLE + PT. ISABEL	1,306,148	.34	154,704	.04	1,460,852	.19
84	SAULT STE. MARIE	1,357,070	.35	70,173	.02	1,427,243	.18
85	TACOMA	799,704	.21	499,787	.13	1,299,491	.17
86	OAKLAND + ALAMEDA	809,763	.21	443,678	.11	1,253,441	.16

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PORT TONNAGE SHIPPED/RECEIVED BY ALL TYPE VESSELS
(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
87	CAMDEN	120,129	.03	1,126,944	.29	1,247,073	.16
88	SAGINAW-BAY CITY	333,800	.09	851,903	.22	1,185,703	.15
89	NORFOLK	101,374	.03	1,078,503	.28	1,179,877	.15
90	VENTURA	942,802	.24	183,915	.05	1,126,717	.15
91	NEW LONDON	70,752	.02	1,044,010	.27	1,114,762	.14
92	FAIRPORT	245,042	.06	860,161	.22	1,105,203	.14
93	HURON	15,213	.00	1,077,682	.28	1,092,895	.14
94	TRAVERSE CITY	541,997	.14	550,086	.14	1,092,083	.14
95	MAYAGUEZ	6,908	.00	1,062,143	.28	1,069,051	.14
96	WEST PALM BEACH	597,390	.15	467,916	.12	1,065,306	.14
97	MIAMI	370,836	.10	682,696	.18	1,053,532	.14
98	PORT ANGELES	0	.00	955,545	.25	955,545	12
99	PORTSMOUTH, N. H.	13,865	.00	906,978	.24	920,843	.12
100	MOBILE	717,678	.19	154,731	.04	872,409	.11
101	MANITOWOC	381,559	.10	476,987	.12	858,546	.11
102	NAWILIWILI-PT. ALLEN	382,242	.10	475,572	.12	857,814	.11
103	GALVESTON	697,070	.18	104,051	.03	801,121	.10
104	PORT SAN LUIS	704,332	.18	82,636	.02	786,968	.10
105	BEAUFORT-MOREHEAD CITY	17,150	.00	750,751	.19	767,901	.10
106	DE TOUR VILLAGE	676,924	.18	3,151	.00	680,075	.09
107	KENAI	653,612	.17	14,056	.00	667,668	.09
108	ALEUTIAN ISLANDS	235,485	.06	414,208	.11	649,693	.08
109	CARRABELLE	261,366	.07	386,202	.10	647,568	.08
110	KETCHIKAN	64,599	.02	447,567	.12	512,166	.07
111	ST. ROSE	373,514	.10	104,693	.03	478,207	.06
112	EUREKA	0	.00	467,241	.12	467,241	.06
113	COOS BAY	155,484	.04	278,553	.07	434,037	.06
114	SALEM	13,583	.00	415,354	.11	428,937	.06
115	ERIE	14,428	.00	407,468	.11	421,896	.05
116	PORT CANAVERAL	0	.00	404,666	.10	404,666	.05
117	BELFAST	17,345	.00	381,355	.10	398,700	.05
118	NEW BEDFORD	145,731	.04	237,498	.06	383,229	.05
119	LONGVIEW	89,957	.02	269,051	.07	359,008	.05
120	WHITTIER	15,719	.00	309,429	.08	325,148	.04
121	FERRYSBURG	180,683	.05	127,256	.03	307,939	.04
122	SACRAMENTO	98,350	.03	202,593	.05	300,943	.04
123	PENSACOLA	217,591	.06	77,413	.02	295,004	.04
124	BANGOR	3,250	.00	289,226	.07	292,476	.04
125	POTOMAC RIV.BELOW WASH. D.C.	59,004	.02	220,640	.06	279,644	.04
126	BENTON HARBOR	34,142	.01	236,112	.06	270,254	.04
127	CHARLETTE AMALIE	53,512	.01	205,284	.05	258,796	.03
128	REDWOOD CITY	233,654	.06	0	.00	233,654	.03
129	KODIAK	70,384	.02	149,324	.04	219,708	.03

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REPORT YEAR 1982
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(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
130	ASHLAND	6,860	.00	188,233	.05	195,093	.03
131	PLYMOUTH	73,394	.02	119,798	.03	193,192	.03
132	FAJARDO	50,164	.01	142,127	.04	192,291	.02
133	SITKA	43,758	.01	127,727	.03	171,485	.02
134	STOCKTON	0	.00	170,947	.04	170,947	.02
135	HOLLAND	0	.00	162,490	.04	162,490	.02
136	NO. OF NOME	17,751	.00	143,342	.04	161,093	.02
137	KEY WEST	0	.00	149,897	.04	149,897	.02
138	JUNEAU	11,564	.00	132,663	.03	144,227	.02
139	HOPEWELL	51,072	.01	80,513	.02	131,585	.02
140	SHEBOYGAN	0	.00	131,170	.03	131,170	.02
141	MACKINAC ISLAND	9,595	.00	118,065	.03	127,660	.02
142	MARINETTE	0	.00	118,545	.03	118,545	.02
143	BOCAGRANDE	520	.00	116,655	.03	117,175	.02
144	LOUISIANA OFFSHORE OIL PORT	33,069	.01	83,398	.02	116,467	.02
145	WAUKEGAN	0	.00	113,997	.03	113,997	.01
146	GUAM ISLAND	0	.00	113,876	.03	113,876	.01
147	SAN JOAQUIN RIVER	51,669	.01	54,381	.01	106,050	.01
148	OSWEGO	0	.00	104,124	.03	104,124	.01
149	BETHEL	34,384	.01	52,930	.01	87,314	.01
150	GRAND HAVEN	0	.00	86,732	.02	86,732	.01
151	GUANICA	57,432	.01	29,041	.01	86,473	.01
152	SEARSPORT	9,817	.00	74,761	.02	84,578	.01
153	GLOUCESTER CITY, N.J.	0	.00	83,349	.02	83,349	.01
154	CHEBOYGAN	448	.00	74,788	.02	75,236	.01
155	PORT HUENEME	25,975	.01	48,869	.01	74,844	.01
156	MELLVILLE	15,537	.00	56,347	.01	71,884	.01
157	NAKNEK	8,802	.00	62,383	.02	71,185	.01
158	RICHMOND-PETERSBURG	0	.00	64,961	.02	64,961	.01
159	GEORGETOWN	0	.00	64,609	.02	64,609	.01
160	ASTORIA	0	.00	54,186	.01	54,186	.01
161	PORT LAVACA	0	.00	52,282	.01	52,282	.01
162	KINNEGNAK	3,004	.00	44,978	.01	47,982	.01
163	NOME	2,496	.00	42,398	.01	44,894	.01
164	DILLINGHAM	4,540	.00	38,294	.01	42,834	.01
165	ABERDEEN-HOQUIAM	37,695	.01	0	.00	37,695	.00
166	AVONDALE	35,845	.01	1,670	.00	37,515	.00
167	MORGAN CITY	23,115	.01	12,216	.00	35,331	.00
168	PETERSBURG, ALASKA	15,246	.00	12,462	.00	27,708	.00
169	ST. PETERSBURG	0	.00	27,072	.01	27,072	.00
170	PONCE	15,344	.00	10,025	.00	25,369	.00
171	EVERETT	25,167	.01	0	.00	25,167	.00
172	PANAMA CITY	24,643	.01	300	.00	24,943	.00

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173	KALAMA	24,299	.01	0	.00	24,299	.00
174	SEWARD	2,061	.00	20,989	.01	23,050	.00
175	CHESTER	4,681	.00	17,554	.00	22,235	.00
176	NEWPORT, ORE.	20,594	.01	0	.00	20,594	.00
177	BRUNSWICK	18,723	.00	0	.00	18,723	.00
178	KING COVE	6,448	.00	10,624	.00	17,072	.00
179	PRESQUE ISLE	17,000	.00	0	.00	17,000	.00
180	NEWPORT	0	.00	16,658	.00	16,658	.00
181	VANCOUVER	4,400	.00	11,516	.00	15,916	.00
182	EVANSVILLE	800	.00	13,429	.00	14,229	.00
183	WRANGELL	1,627	.00	11,778	.00	13,405	.00
184	ST. MICHAEL	283	.00	12,664	.00	12,947	.00
185	SYRACUSE	0	.00	12,781	.00	12,781	.00
186	STURGEON BAY	6,095	.00	6,095	.00	12,190	.00
187	ST. LAWRENCE ISL.	866	.00	8,956	.00	9,822	.00
188	CHATTANOOGA	7,928	.00	0	.00	7,928	.00
189	JONESPORT	0	.00	5,706	.00	5,706	.00
190	ST. LOUIS	300	.00	5,258	.00	5,558	.00
191	PELICAN	2,874	.00	2,410	.00	5,284	.00
192	GRAND PORTAGE	1,612	.00	3,484	.00	5,096	.00
193	PORT TOWNSEND	252	.00	4,267	.00	4,519	.00
194	REEDVILLE	3,489	.00	0	.00	3,489	.00
195	EASTPORT	691	.00	2,763	.00	3,454	.00
196	ST. AUGUSTINE	2,992	.00	0	.00	2,992	.00
197	YUKON RIVER	17	.00	2,798	.00	2,815	.00
198	CINCINNATI	0	.00	2,698	.00	2,698	.00
199	TULSA	2,606	.00	0	.00	2,606	.00
200	FORT SMITH	0	.00	2,602	.00	2,602	.00
201	ROCKLAND	562	.00	1,956	.00	2,518	.00
202	EGEGIK	882	.00	1,461	.00	2,343	.00
203	PITTSBURG, PA.	1,190	.00	1,023	.00	2,213	.00
204	HOOPER BAY	2	.00	1,950	.00	1,952	.00
205	AGUADILLA	0	.00	1,705	.00	1,705	.00
206	LEWES, DEL.	0	.00	1,630	.00	1,630	.00
207	PEORIA	0	.00	1,373	.00	1,373	.00
208	VICKSBURG	0	.00	1,307	.00	1,307	.00
209	OLD HARBOR	445	.00	846	.00	1,291	.00
210	SKAGWAY	0	.00	1,175	.00	1,175	.00
211	BATH	33	.00	654	.00	687	.00
212	FORT PIERCE	0	.00	450	.00	450	.00
213	APALACHICOLA	0	.00	400	.00	400	.00
214	MEMPHIS	330	.00	0	.00	330	.00
215	ALAKANUK	0	.00	253	.00	253	.00

NOTE: PERCENT COLUMN TOTALS MAY NOT EQUAL 100 PERCENT BECAUSE OF STATISTICAL ROUNDING

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REPORT YEAR 1982
U.S. DOMESTIC OCEAN AND GREAT LAKES WATERBORNE COMMERCE
PORT TONNAGE SHIPPED/RECEIVED BY ALL TYPE VESSELS
(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
216	ELIZABETH CITY	0	.00	210	.00	210	.00
217	MARSHALL	0	.00	60	.00	60	.00
218	MCGRATH POINT	19	.00	8	.00	27	.00
219	FAIRBANKS	4	.00	0	.00	4	.00
	* TOTAL FOR ALL PORTS	385,924,167	50.00	385,924,167	50.00	771,848,334	100.00

NOTE: PERCENT COLUMN TOTALS MAY NOT EQUAL 100 PERCENT BECAUSE OF STATISTICAL ROUNDING

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REPORT YEAR 1982
U.S DOMESTIC OCEAN WATERBORNE COMMERCE
PORT TONNAGE SHIPPED/RECEIVED BY SELF PROPELLED DRY CARGO VESSEL
(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
1	SAN JUAN	916,942	8.71	2,509,171	23.83	3,426,113	16.27
2	HONOLULU	1,077,860	10.24	1,902,492	18.07	2,980,352	14.15
3	NEW YORK	1,451,648	13.79	621,486	5.90	2,073,134	9.84
4	ANCHORAGE	114,319	1.09	1,174,616	11.16	1,288,935	6.12
5	OAKLAND + ALAMEDA	774,778	7.36	380,744	3.62	1,155,522	5.49
6	SEATTLE	767,752	7.29	183,729	1.74	951,481	4.52
7	LOS ANGELES	659,401	6.26	255,140	2.42	914,541	4.34
8	BALTIMORE	361,609	3.43	399,745	3.80	761,354	3.62
9	CARQUINEZ STRAIT	0	.00	718,655	6.83	718,655	3.41
10	TACOMA	638,615	6.07	50,676	.48	689,291	3.27
11	JACKSONVILLE	404,829	3.84	107,377	1.02	512,206	2.43
12	HILO	382,255	3.63	118,912	1.13	501,167	2.38
13	KAHULUI	354,800	3.37	110,362	1.05	465,162	2.21
14	HOUSTON	234,311	2.23	184,452	1.75	418,763	1.99
15	NEW ORLEANS	326,955	3.11	75,512	.72	402,467	1.91
16	BATON ROUGE	135,727	1.29	223,741	2.12	359,468	1.71
17	CHRISTIANSTED	257,982	2.45	53,921	.51	311,903	1.48
18	CHARLESTON	220,274	2.09	84,215	.80	304,489	1.45
19	NEW BEDFORD	136,966	1.30	136,966	1.30	273,932	1.30
20	PUERTO ARMUELLES	261,792	2.49	0	.00	261,792	1.24
21	NAWILIWILI-PT. ALLEN	193,165	1.83	48,924	.46	242,089	1.15
22	LONG BEACH	226,028	2.15	4,376	.04	230,404	1.09
23	BOSTON	1,231	.01	154,836	1.47	156,067	.74
24	KODIAK	61,455	.58	65,317	.62	126,772	.60
25	GUAYANILLA	16,240	.15	104,095	.99	120,335	.57
26	PORTLAND, ORE.	72,253	.69	42,197	.40	114,450	.54
27	MIAMI	58,026	.55	56,030	.53	114,056	.54
28	GUAM ISLAND	0	.00	113,753	1.08	113,753	.54
29	FALL RIVER	0	.00	102,967	.98	102,967	.49
30	SACRAMENTO	98,350	.93	0	.00	98,350	.47
31	CORPUS CHRISTI	50,254	.48	43,175	.41	93,429	.44
32	FAJARDO	48,964	.47	35,521	.34	84,485	.40
33	CHARLETTE AMALIE	25,832	.25	56,556	.54	82,388	.39
34	WILMINGTON, N.C.	47	.00	60,451	.57	60,498	.29
35	NORFOLK	42,713	.41	17,534	.17	60,247	.29
36	NEW HAVEN	0	.00	51,819	.49	51,819	.25
37	PHILADELPHIA	1,283	.01	49,824	.47	51,107	.24
38	LONGVIEW	0	.00	50,254	.48	50,254	.24
39	STOCKTON	0	.00	45,825	.44	45,825	.22
40	SAVANNAH	23,589	.22	7,705	.07	31,294	.15
41	GALVESTON	0	.00	30,500	.29	30,500	.14
42	VENTURA	54	.00	25,999	.25	26,053	.12
43	PORT HUENEME	25,975	.25	30	.00	26,005	.12

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REPORT YEAR 1982
U.S DOMESTIC OCEAN WATERBORNE COMMERCE
PORT TONNAGE SHIPPED/RECEIVED BY SELF PROPELLED DRY CARGO VESSEL
(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
44	PONCE	15,344	.15	7,880	.07	23,224	.11
45	KALAMA	20,100	.19	0	.00	20,100	.10
46	ALEUTIAN ISLANDS	10,416	.10	9,342	.09	19,758	.09
47	HOPEWELL	18,614	.18	0	.00	18,614	.09
48	ANCHORAGE/UNIMAK	5,300	.05	11,138	.11	16,438	.08
49	MELLVILLE	5,905	.06	7,609	.07	13,514	.06
50	NO. OF NOME	300	.00	7,217	.07	7,517	.04
51	MAYAGUEZ	6,908	.07	0	.00	6,908	.03
52	KINNEGNAK	2,281	.02	4,354	.04	6,635	.03
53	ST. LAWRENCE ISL.	847	.01	4,805	.05	5,652	.03
54	KETCHIKAN	1,758	.02	2,144	.02	3,902	.02
55	VALDEZ	3,289	.03	397	.00	3,686	.02
56	BANGOR	2,282	.02	1,211	.01	3,493	.02
57	KING COVE	788	.01	2,534	.02	3,322	.02
58	NEW LONDON	1,711	.02	1,335	.01	3,046	.01
59	ROCKLAND	562	.01	1,956	.02	2,518	.01
60	DILLINGHAM	1,271	.01	896	.01	2,167	.01
61	NOME	1,300	.01	837	.01	2,137	.01
62	YUKON RIVER	2	.00	1,450	.01	1,452	.01
63	EASTPORT	691	.01	691	.01	1,382	.01
64	PROVIDENCE	1,328	.01	0	.00	1,328	.01
65	HOOPER BAY	0	.00	1,028	.01	1,028	.00
66	PELICAN	710	.01	266	.00	976	.00
67	KENAI	540	.01	275	.00	815	.00
68	ST. MICHAEL	268	.00	501	.00	769	.00
69	NAKNEK	150	.00	590	.01	740	.00
70	BETHEL	557	.01	175	.00	732	.00
71	OLD HARBOR	445	.00	78	.00	523	.00
72	ST. AUGUSTINE	508	.00	0	.00	508	.00
73	BELFAST	292	.00	0	.00	292	.00
74	BELLINGHAM	0	.00	263	.00	263	.00
75	BROWNSVILLE + PT. ISABEL	0	.00	254	.00	254	.00
76	PORT TOWNSEND	252	.00	0	.00	252	.00
77	SITKA	66	.00	150	.00	216	.00
78	WRANGELL	1	.00	65	.00	66	.00
79	EGEGIK	0	.00	50	.00	50	.00
80	BATH	33	.00	4	.00	37	.00
81	PORTLAND, ME.	4	.00	2	.00	6	.00
	+ TOTAL FOR ALL PORTS	10,529,097	50.00	10,529,097	50.00	21,058,194	100.00

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REPORT YEAR 1982
U.S DOMESTIC OCEAN WATERBORNE COMMERCE
PORT TONNAGE SHIPPED/RECEIVED BY SELF PROPELLED TANKER VESSEL
(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
1	VALDEZ	89,957,053	39.76	23,748	.01	89,980,801	19.89
2	PUERTO ARMUELLES	29,679,339	13.12	37,914,993	16.76	67,594,332	14.94
3	NEW YORK	5,711,035	2.52	21,081,468	9.32	26,792,503	5.92
4	CHRISTIANSTED	16,102,405	7.12	5,997,689	2.65	22,100,094	4.88
5	LONG BEACH	621,053	.27	16,560,408	7.32	17,181,461	3.80
6	HOUSTON	8,231,449	3.64	7,199,939	3.18	15,431,388	3.41
7	LOS ANGELES	4,209,775	1.86	9,868,208	4.36	14,077,983	3.11
8	CARQUINEZ STRAIT	4,761,505	2.10	8,501,387	3.76	13,262,892	2.93
9	BATON ROUGE	5,757,180	2.54	6,633,858	2.93	12,391,038	2.74
10	BELLINGHAM	1,371,871	.61	10,048,041	4.44	11,419,912	2.52
11	NEW ORLEANS	8,121,168	3.59	1,162,420	.51	9,283,588	2.05
12	RICHMOND, CALIF.	3,445,886	1.52	5,621,032	2.48	9,066,918	2.00
13	BEAUMONT	4,606,340	2.04	4,203,458	1.86	8,809,798	1.95
14	CORPUS CHRISTI	5,088,712	2.25	2,923,781	1.29	8,012,493	1.77
15	EL SEGUNDO	2,214,623	.98	5,280,417	2.33	7,495,040	1.66
16	TEXAS CITY	1,598,869	.71	4,568,518	2.02	6,167,387	1.36
17	TAMPA	44,482	.02	5,323,505	2.35	5,367,987	1.19
18	BOSTON	220,369	.10	4,621,390	2.04	4,841,759	1.07
19	PORT ARTHUR	3,392,853	1.50	1,390,763	.61	4,783,616	1.06
20	ANACORTES	1,616,219	.71	3,099,318	1.37	4,715,537	1.04
21	MORRO	4,619,261	2.04	0	.00	4,619,261	1.02
22	HUMACAO	1,448,043	.64	3,065,788	1.36	4,513,831	1.00
23	PORT EVERGLADES	373,829	.17	3,960,597	1.75	4,334,426	.96
24	FREEPORT	914,227	.40	3,308,962	1.46	4,223,189	.93
25	ANCHORAGE/UNIMAK	3,110,028	1.37	938,987	.42	4,049,015	.89
26	JACKSONVILLE	3,958	.00	3,349,789	1.48	3,353,747	.74
27	PHILADELPHIA	1,454,016	.64	1,892,347	.84	3,346,363	.74
28	GRAMERCY	531,076	.23	2,745,352	1.21	3,276,428	.72
29	SAN PABLO BAY	1,372,651	.61	1,840,730	.81	3,213,381	.71
30	HONOLULU	234,255	.10	2,924,983	1.29	3,159,238	.70
31	PORTLAND, ORE.	90,433	.04	3,021,426	1.34	3,111,859	.69
32	MARCUS HOOK	181,603	.08	2,899,955	1.28	3,081,558	.68
33	SAN FRANCISCO	57,685	.03	2,962,327	1.31	3,020,012	.67
34	PAULSBORO	1,015,644	.45	1,789,044	.79	2,804,688	.62
35	DESTREHAN	2,178,589	.96	288,426	.13	2,467,015	.55
36	LAKE CHARLES	943,300	.42	1,289,206	.57	2,232,506	.49
37	PASCAGOULA	1,072,723	.47	1,073,100	.47	2,145,823	.47
38	SANTA BARBARA CHANNEL ISLAND	2,079,849	.92	0	.00	2,079,849	.46
39	SAN JUAN	775,102	.34	1,206,709	.53	1,981,811	.44
40	PROVIDENCE	158,442	.07	1,807,789	.80	1,966,231	.43
41	CHARLESTON	61,448	.03	1,667,607	.74	1,729,055	.38
42	GUAYANILLA	623,302	.28	1,027,258	.45	1,650,560	.36
43	WILMINGTON, N.C.	35,594	.02	1,588,723	.70	1,624,317	.36

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REPORT YEAR 1982
U.S DOMESTIC OCEAN WATERBORNE COMMERCE
PORT TONNAGE SHIPPED/RECEIVED BY SELF PROPELLED TANKER VESSEL
(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
44	BALTIMORE	77,294	.03	1,510,870	.67	1,588,164	.35
45	PORTLAND, ME.	223,512	.10	1,255,515	.55	1,479,027	.33
46	SAN DIEGO	68,867	.03	1,395,085	.62	1,463,952	.32
47	NEW HAVEN	60,610	.03	1,403,296	.62	1,463,906	.32
48	SEATTLE	97,400	.04	1,324,381	.59	1,421,781	.31
49	SUISUN BAY	836,971	.37	568,434	.25	1,405,405	.31
50	BROWNSVILLE + PT. ISABEL	1,160,094	.51	154,450	.07	1,314,544	.29
51	CAMDEN	10,983	.00	1,038,065	.46	1,049,048	.23
52	PORT ANGELES	0	.00	955,545	.42	955,545	.21
53	BRIDGEPORT	1,825	.00	937,730	.41	939,555	.21
54	WILMINGTON, DEL.	360,786	.16	521,816	.23	882,602	.20
55	NORFOLK	4,553	.00	798,868	.35	803,421	.18
56	PORT SAN LUIS	704,332	.31	82,636	.04	786,968	.17
57	GALVESTON	697,070	.31	50,027	.02	747,097	.17
58	BEAUFORT-MOREHEAD CITY	16,850	.01	673,324	.30	690,174	.15
59	SAVANNAH	14,228	.01	632,996	.28	647,224	.14
60	PORTSMOUTH, N. H.	13,865	.01	553,656	.24	567,521	.13
61	VENTURA	365,342	.16	131,926	.06	497,268	.11
62	FALL RIVER	49,125	.02	429,700	.19	478,825	.11
63	ST. ROSE	351,358	.16	104,693	.05	456,051	.10
64	TACOMA	25,521	.01	424,089	.19	449,610	.10
65	KENAI	431,399	.19	0	.00	431,399	.10
66	WEST PALM BEACH	0	.00	395,207	.17	395,207	.09
67	ALBANY	0	.00	325,766	.14	325,766	.07
68	ALEUTIAN ISLANDS	6,586	.00	307,216	.14	313,802	.07
69	ANCHORAGE	19,099	.01	262,393	.12	281,492	.06
70	NEW LONDON	47,525	.02	220,824	.10	268,349	.06
71	HARTFORD	2,122	.00	260,999	.12	263,121	.06
72	BANGOR	968	.00	243,648	.11	244,616	.05
73	NEWPORT NEWS	0	.00	240,896	.11	240,896	.05
74	PORT CANAVERAL	0	.00	215,323	.10	215,323	.05
75	LONGVIEW	0	.00	204,290	.09	204,290	.05
76	PENSACOLA	199,031	.09	0	.00	199,031	.04
77	SALEM	1,883	.00	185,776	.08	187,659	.04
78	POTOMAC RIV.BELOW WASH. D C.	5,907	.00	157,241	.07	163,148	.04
79	MOBILE	154,492	.07	2,006	.00	156,498	.03
80	SACRAMENTO	0	.00	153,297	.07	153,297	.03
81	MIAMI	0	.00	150,321	.07	150,321	.03
82	LOUISIANA OFFSHORE OIL PORT	33,069	.01	83,398	.04	116,467	.03
83	COOS BAY	0	.00	116,080	.05	116,080	.03
84	FAJARDO	1,200	.00	102,407	.05	103,607	.02
85	SAN JOAQUIN RIVER	51,669	.02	40,881	.02	92,550	.02
86	EUREKA	0	.00	92,498	.04	92,498	.02

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REPORT YEAR 1982
U.S DOMESTIC OCEAN WATERBORNE COMMERCE
PORT TONNAGE SHIPPED/RECEIVED BY SELF PROPELLED TANKER VESSEL
(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
87	GLOUCESTER CITY, N.J.	0	.00	83,349	.04	83,349	.02
88	HOPEWELL	0	.00	71,958	.03	71,958	.02
89	KODIAK	0	.00	61,955	.03	61,955	.01
90	BELFAST	1,444	.00	53,700	.02	55,144	.01
91	MELLVILLE	9,632	.00	45,422	.02	55,054	.01
92	KETCHIKAN	1,119	.00	49,347	.02	50,466	.01
93	GEORGETOWN	0	.00	50,162	.02	50,162	.01
94	OAKLAND + ALAMEDA	0	.00	47,556	.02	47,556	.01
95	NEW BEDFORD	1,796	.00	43,743	.02	45,539	.01
96	PLYMOUTH	0	.00	41,219	.02	41,219	.01
97	PORT HUENEME	0	.00	38,077	.02	38,077	.01
98	ASTORIA	0	.00	36,557	.02	36,557	.01
99	STOCKTON	0	.00	35,453	.02	35,453	.01
100	KEY WEST	0	.00	33,370	.01	33,370	.01
101	ST PETERSBURG	0	.00	27,072	.01	27,072	.01
102	JUNEAU	0	.00	22,096	.01	22,096	.00
103	CHARLETTE AMALIE	20,720	.01	0	.00	20,720	.00
104	NEWPORT	0	.00	16,658	.01	16,658	.00
105	HILO	0	.00	16,090	.01	16,090	.00
106	WHITTIER	1,369	.00	11,611	.01	12,980	.00
107	SEWARD	0	.00	12,895	.01	12,895	.00
108	VANCOUVER	0	.00	11,516	.01	11,516	.00
109	KAHULUI	0	.00	9,181	.00	9,181	.00
110	ABERDEEN-HOQUIAM	5,898	.00	0	.00	5,898	.00
111	RICHMOND-PETERSBURG	0	.00	5,810	.00	5,810	.00
112	JONESPORT	0	.00	5,706	.00	5,706	.00
113	KING COVE	0	.00	5,173	.00	5,173	.00
114	CHESTER	4,681	.00	0	.00	4,681	.00
115	PORT TOWNSEND	0	.00	4,267	.00	4,267	.00
116	SEARSPORT	0	.00	3,479	.00	3,479	.00
117	EASTPORT	0	.00	2,072	.00	2,072	.00
118	PONCE	0	.00	1,200	.00	1,200	.00
119	SITKA	0	.00	962	.00	962	.00
120	OLD HARBOR	0	.00	768	.00	768	.00
	* TOTAL FOR ALL PORTS	226,229,439	50.00	226,229,439	50.00	452,458,878	100.00

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REPORT YEAR 1982
U.S DOMESTIC OCEAN WATERBORNE COMMERCE
PORT TONNAGE SHIPPED/RECEIVED BY NON-SELF PROPELLED DRY CARGO BARGE
(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
1	TAMPA	4,307,335	21.48	3,191,902	15.92	7,499,237	18.70
2	NEW YORK	2,513,698	12.54	2,897,645	14.45	5,411,343	13.49
3	NEW ORLEANS	2,846,076	14.19	229,696	1.15	3,075,772	7.67
4	HONOLULU	1,490,123	7.43	1,303,899	6.50	2,794,022	6.97
5	GRAMERCY	33,420	.17	2,183,534	10.89	2,216,954	5.53
6	SAN JUAN	219,554	1.09	1,246,297	6.22	1,465,851	3.66
7	NEW HAVEN	1,120,705	5.59	109,740	.55	1,230,445	3.07
8	SEATTLE	997,086	4.97	200,824	1.00	1,197,910	2.99
9	KAHULUI	555,995	2.77	633,523	3.16	1,189,518	2.97
10	DESTREHAN	342,481	1.71	780,175	3.89	1,122,656	2.80
11	HILO	377,838	1.88	613,198	3.06	991,036	2.47
12	ALBANY	970,010	4.84	8	.00	970,018	2.42
13	HOUSTON	193,638	.97	670,562	3.34	864,200	2.15
14	BRIDGEPORT	26,811	.13	821,079	4.09	847,890	2.11
15	JACKSONVILLE	538,978	2.69	287,545	1.43	826,523	2.06
16	WEST PALM BEACH	588,315	2.93	21,770	.11	610,085	1.52
17	BALTIMORE	128,493	.64	475,497	2.37	603,990	1.51
18	NAWILIWILI-PT. ALLEN	189,077	.94	318,154	1.59	507,231	1.26
19	PASCAGOULA	11,230	.06	399,026	1.99	410,256	1.02
20	PORTLAND, ORE.	166,221	.83	181,682	.91	347,903	.87
21	BOSTON	500	.00	328,958	1.64	329,458	.82
22	WHITTIER	7,567	.04	297,818	1.49	305,385	.76
23	ANCHORAGE	8,359	.04	277,743	1.39	286,102	.71
24	LAKE CHARLES	213,153	1.06	50,102	.25	263,255	.66
25	LONG BEACH	79,960	.40	170,006	.85	249,966	.62
26	KENAI	221,673	1.11	13,781	.07	235,454	.59
27	KETCHIKAN	47,418	.24	186,834	.93	234,252	.58
28	BATON ROUGE	145,238	.72	86,237	.43	231,475	.58
29	COOS BAY	155,484	.78	61,725	.31	217,209	.54
30	REDWOOD CITY	197,654	.99	0	.00	197,654	.49
31	ALEUTIAN ISLANDS	129,392	.65	54,251	.27	183,643	.46
32	SAVANNAH	47,710	.24	109,775	.55	157,485	.39
33	NORFOLK	10,179	.05	135,899	.68	146,078	.36
34	SAN DIEGO	7,763	.04	137,852	.69	145,615	.36
35	NEWPORT NEWS	133,301	.66	210	.00	133,511	.33
36	PORTLAND, ME.	0	.00	133,231	.66	133,231	.33
37	PROVIDENCE	110	.00	130,547	.65	130,657	.33
38	CAMDEN	86,167	.43	19,081	.10	105,248	.26
39	BELLINGHAM	104,620	.52	562	.00	105,182	.26
40	PORT EVERGLADES	1,150	.01	103,784	.52	104,934	.26
41	LOS ANGELES	69,933	.35	34,831	.17	104,764	.26
42	NO. OF NOME	11,118	.06	85,565	.43	96,683	.24
43	GUANICA	57,432	.29	29,041	.14	86,473	.22

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REPORT YEAR 1982
U.S DOMESTIC OCEAN WATERBORNE COMMERCE
PORT TONNAGE SHIPPED/RECEIVED BY NON-SELF PROPELLED DRY CARGO BARGE
(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
44	BETHEL	33,033	.16	52,755	.26	85,788	.21
45	JUNEAU	8,869	.04	76,007	.38	84,876	.21
46	MOBILE	78,337	.39	1,200	.01	79,537	.20
47	SITKA	32,257	.16	41,789	.21	74,046	.18
48	STOCKTON	0	.00	73,098	.36	73,098	.18
49	CARQUINEZ STRAIT	0	.00	72,968	.36	72,968	.18
50	PHILADELPHIA	33,738	.17	36,921	.18	70,659	.18
51	LONGVIEW	63,757	.32	0	.00	63,757	.16
52	MAYAGUEZ	0	.00	60,855	.30	60,855	.15
53	NAKNEK	8,652	.04	50,019	.25	58,671	.15
54	PORT LAVACA	0	.00	52,282	.26	52,282	.13
55	OAKLAND + ALAMEDA	34,985	.17	15,378	.08	50,363	.13
56	SACRAMENTO	0	.00	49,296	.25	49,296	.12
57	TACOMA	21,745	.11	25,022	.12	46,767	.12
58	NEW LONDON	13,129	.07	33,346	.17	46,475	.12
59	BEAUMONT	40,000	.20	1,327	.01	41,327	.10
60	MIAMI	2,625	.01	38,100	.19	40,725	.10
61	HOPEWELL	32,458	.16	7,855	.04	40,313	.10
62	DILLINGHAM	3,269	.02	34,493	.17	37,762	.09
63	PORT CANAVERAL	0	.00	36,654	.18	36,654	.09
64	KINNEGNAK	723	.00	35,769	.18	36,492	.09
65	ANCHORAGE/UNIMAK	15,220	.08	20,794	.10	36,014	.09
66	RICHMOND, CALIF.	29,416	.15	6,305	.03	35,721	.09
67	ABERDEEN-HOQUIAM	31,797	.16	0	.00	31,797	.08
68	KODIAK	8,929	.04	22,052	.11	30,981	.08
69	WILMINGTON, N.C.	26,410	.13	0	.00	26,410	.07
70	MORGAN CITY	23,115	.12	2,448	.01	25,563	.06
71	EVERETT	25,167	.13	0	.00	25,167	.06
72	GALVESTON	0	.00	23,524	.12	23,524	.06
73	NEWPORT, ORE.	20,594	.10	0	.00	20,594	.05
74	VALDEZ	1,227	.01	17,466	.09	18,693	.05
75	FALL RIVER	0	.00	17,000	.08	17,000	.04
76	SUISUN BAY	16,194	.08	0	.00	16,194	.04
77	WILMINGTON, DEL.	558	.00	14,328	.07	14,886	.04
78	GEORGETOWN	0	.00	14,447	.07	14,447	.04
79	EVANSVILLE	800	.00	13,429	.07	14,229	.04
80	NOME	1,196	.01	11,096	.06	12,292	.03
81	PETERSBURG, ALASKA	6,704	.03	5,413	.03	12,117	.03
82	SALEM	11,700	.06	0	.00	11,700	.03
83	BRUNSWICK	11,387	.06	0	.00	11,387	.03
84	KING COVE	5,660	.03	2,917	.01	8,577	.02
85	CHATTANOOGA	7,928	.04	0	.00	7,928	.02
86	POTOMAC RIV.BELOW WASH. D.C.	0	.00	7,090	.04	7,090	.02

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U.S DOMESTIC OCEAN WATERBORNE COMMERCE
PORT TONNAGE SHIPPED/RECEIVED BY NON-SELF PROPELLED DRY CARGO BARGE
(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
87	SEWARD	2,061	.01	4,984	.02	7,045	.02
88	ANACORTES	6,799	.03	0	.00	6,799	.02
89	PORT HUENEME	0	.00	6,622	.03	6,622	.02
90	SAN FRANCISCO	6,500	.03	0	.00	6,500	.02
91	GUAYANILLA	0	.00	6,315	.03	6,315	.02
92	WRANGELL	473	.00	5,774	.03	6,247	.02
93	CORPUS CHRISTI	2,756	.01	2,844	.01	5,600	.01
94	ST. LOUIS	300	.00	5,258	.03	5,558	.01
95	VENTURA	5,295	.03	0	.00	5,295	.01
96	NEW BEDFORD	5,029	.03	37	.00	5,066	.01
97	VANCOUVER	4,400	.02	0	.00	4,400	.01
98	ST. LAWRENCE ISL.	19	.00	4,151	.02	4,170	.01
99	PELICAN	2,164	.01	1,967	.01	4,131	.01
100	CHICAGO	0	.00	3,921	.02	3,921	.01
101	CINCINNATI	0	.00	2,698	.01	2,698	.01
102	CHARLESTON	440	.00	2,228	.01	2,668	.01
103	TULSA	2,606	.01	0	.00	2,606	.01
104	FORT SMITH	0	.00	2,602	.01	2,602	.01
105	ST. AUGUSTINE	2,484	.01	0	.00	2,484	.01
106	EGEGIK	882	.00	1,411	.01	2,293	.01
107	PITTSBURG, PA.	1,190	.01	1,023	.01	2,213	.01
108	ASTORIA	0	.00	2,053	.01	2,053	.01
109	PENSACOLA	1,685	.01	69	.00	1,754	.00
110	PEORIA	0	.00	1,373	.01	1,373	.00
111	YUKON RIVER	15	.00	1,348	.01	1,363	.00
112	VICKSBURG	0	.00	1,307	.01	1,307	.00
113	KEY WEST	0	.00	1,150	.01	1,150	.00
114	PANAMA CITY	695	.00	300	.00	995	.00
115	HOOPER BAY	2	.00	789	.00	791	.00
116	PORTSMOUTH, N. H.	0	.00	710	.00	710	.00
117	BOCAGRANDE	520	.00	150	.00	670	.00
118	BATH	0	.00	650	.00	650	.00
119	SAN PABLO BAY	0	.00	525	.00	525	.00
120	FORT PIERCE	0	.00	450	.00	450	.00
121	APALACHICOLA	0	.00	400	.00	400	.00
122	ST. MICHAEL	15	.00	370	.00	385	.00
123	MEMPHIS	330	.00	0	.00	330	.00
124	PAULSBORO	0	.00	300	.00	300	.00
125	BEAUFORT-MOREHEAD CITY	300	.00	0	.00	300	.00
126	ALAKANUK	0	.00	253	.00	253	.00
127	ELIZABETH CITY	0	.00	210	.00	210	.00
128	GUAM ISLAND	0	.00	123	.00	123	.00
129	AVONDALE	0	.00	70	.00	70	.00

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RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
130	MARSHALL	0	.00	60	.00	60	.00
131	MCGRATH POINT	19	.00	8	.00	27	.00
132	PLYMOUTH	8	.00	0	.00	8	.00
133	FAIRBANKS	4	.00	0	.00	4	.00
	* TOTAL FOR ALL PORTS	20,051,535	50.00	20,051,535	50.00	40,103,070	100.00

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REPORT YEAR 1982
U.S DOMESTIC OCEAN WATERBORNE COMMERCE
PORT TONNAGE SHIPPED/RECEIVED BY NON-SELF PROPELLED TANK BARGE
(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
1	NEW YORK	20,533,483	36.01	8,208,484	14.39	28,741,967	25.20
2	TAMPA	5,434	.01	7,118,565	12.48	7,123,999	6.25
3	BOSTON	580,480	1.02	6,019,178	10.55	6,599,658	5.79
4	NEW HAVEN	532,678	.93	4,976,426	8.73	5,509,104	4.83
5	PORT EVERGLADES	115,377	.20	4,896,137	8.59	5,011,514	4.39
6	DESTREHAN	3,658,378	6.41	50,200	.09	3,708,578	3.25
7	PASCAGOULA	3,509,774	6.15	171,391	.30	3,681,165	3.23
8	PROVIDENCE	206,807	.36	3,053,367	5.35	3,260,174	2.86
9	WILMINGTON, DEL.	2,600,868	4.56	50,333	.09	2,651,201	2.32
10	BRIDGEPORT	121,381	.21	2,233,962	3.92	2,355,343	2.07
11	PAULSBORO	2,085,527	3.66	206,530	.36	2,292,057	2.01
12	MARCUS HOOK	1,996,696	3.50	57,530	.10	2,054,226	1.80
13	SAN JUAN	898,219	1.58	1,007,371	1.77	1,905,590	1.67
14	HUMACAO	1,854,546	3.25	0	.00	1,854,546	1.63
15	PORTLAND, ME.	30,531	.05	1,803,827	3.16	1,834,358	1.61
16	LAKE CHARLES	1,765,277	3.10	16,160	.03	1,781,437	1.56
17	PHILADELPHIA	1,458,035	2.56	187,470	.33	1,645,505	1.44
18	JACKSONVILLE	8,300	.01	1,626,261	2.85	1,634,561	1.43
19	CORPUS CHRISTI	1,526,588	2.68	39,348	.07	1,565,936	1.37
20	FALL RIVER	39,664	.07	1,372,301	2.41	1,411,965	1.24
21	HARTFORD	0	.00	1,282,516	2.25	1,282,516	1.12
22	BEAUMONT	1,014,152	1.78	189,166	.33	1,203,318	1.06
23	TEXAS CITY	1,050,466	1.84	77,311	.14	1,127,777	.99
24	NEWPORT NEWS	1,066,841	1.87	48,518	.09	1,115,359	.98
25	PORT ARTHUR	1,050,453	1.84	48,517	.09	1,098,970	.96
26	SAVANNAH	510,129	.89	558,827	.98	1,068,956	.94
27	HOUSTON	865,501	1.52	202,108	.35	1,067,609	.94
28	MAYAGUEZ	0	.00	1,001,288	1.76	1,001,288	.88
29	CHARLESTON	9,061	.02	910,722	1.60	919,783	.81
30	BATON ROUGE	851,148	1.49	67,616	.12	918,764	.81
31	NEW ORLEANS	849,044	1.49	26,982	.05	876,026	.77
32	WILMINGTON, N.C.	42,896	.08	817,225	1.43	860,121	.75
33	NEW LONDON	8,387	.01	788,505	1.38	796,892	.70
34	MIAMI	310,185	.54	438,245	.77	748,430	.66
35	CHRISTIANSTED	649,699	1.14	92,321	.16	742,020	.65
36	BALTIMORE	251,294	.44	474,880	.83	726,174	.64
37	HONOLULU	673,597	1.18	4,612	.01	678,209	.59
38	CARRABELLE	251,366	.46	386,202	.68	647,568	.57
39	MOBILE	484,849	.85	151,525	.27	636,374	.56
40	VENTURA	572,111	1.00	25,990	.05	598,101	.52
41	ALBANY	80,069	.14	457,032	.80	537,101	.47
42	LOS ANGELES	95,769	.17	403,861	.71	499,630	.44
43	SEATTLE	374,951	.66	71,496	.13	446,447	.39

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RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
44	LONG BEACH	74,314	.13	365,657	.64	439,971	.39
45	EUREKA	0	.00	374,743	.66	374,743	.33
46	GUAYANILLA	154,026	.27	202,505	.36	356,531	.31
47	PORTSMOUTH, N. H.	0	.00	352,612	.62	352,612	.31
48	RICHMOND, CALIF.	186,343	.33	158,914	.28	345,257	.30
49	BELFAST	15,609	.03	327,655	.57	343,264	.30
50	KAHULUI	3,735	.01	288,026	.51	291,761	.26
51	SUISUN BAY	243,217	.43	33,942	.06	277,159	.24
52	HILO	0	.00	276,200	.48	276,200	.24
53	PORTLAND, ORE.	59,561	.10	190,479	.33	250,039	.22
54	FREEPORT	26,960	.05	214,795	.38	241,755	.21
55	SALEM	0	.00	229,578	.40	229,578	.20
56	PUERTO ARMUELLES	224,396	.39	0	.00	224,396	.20
57	KETCHIKAN	14,304	.03	209,242	.37	223,546	.20
58	BELLINGHAM	175,559	.31	36,000	.06	211,559	.19
59	NORFOLK	43,929	.08	126,202	.22	170,131	.15
60	ANCHORAGE/UNIMAK	163,820	.29	0	.00	163,820	.14
61	VALDEZ	0	.00	161,483	.28	161,483	.14
62	CHARLETTE AMALIE	6,950	.01	148,726	.26	155,688	.14
63	PORT CANAVERAL	0	.00	152,689	.27	152,689	.13
64	PLYMOUTH	73,386	.13	78,579	.14	151,965	.13
65	CARQUINEZ STRAIT	126,726	.22	19,666	.03	146,392	.13
66	BROWNSVILLE + PT. ISABEL	146,054	.26	0	.00	146,054	.13
67	ALEUTIAN ISLANDS	89,091	.16	43,399	.08	132,490	.12
68	BOCAGRANDE	0	.00	116,505	.20	116,505	.10
69	KEY WEST	0	.00	115,377	.20	115,377	.10
70	TACOMA	113,823	.20	0	.00	113,823	.10
71	POTOMAC RIV.BELOW WASH. D.C.	53,097	.09	56,309	.10	109,406	.10
72	NAWILIWILI-PT. ALLEN	0	.00	108,494	.19	108,494	.10
73	COOS BAY	0	.00	100,748	.18	100,748	.09
74	SITKA	11,435	.02	84,826	.15	96,261	.08
75	PENSACOLA	16,875	.03	77,344	.14	94,219	.08
76	CAMDEN	22,979	.04	69,798	.12	92,777	.08
77	GRAMERCY	69,671	.12	12,716	.02	82,387	.07
78	SEARSPORT	9,817	.02	71,282	.12	81,099	.07
79	BEAUFORT-MOREHEAD CITY	0	.00	77,427	.14	77,427	.07
80	SAN PABLO BAY	62,174	.11	0	.00	62,174	.05
81	WEST PALM BEACH	9,075	.02	50,939	.09	60,014	.05
82	RICHMOND-PETERSBURG	0	.00	59,151	.10	59,151	.05
83	NEW BEDFORD	1,940	.00	56,752	.10	58,692	.05
84	NO. OF NOME	6,333	.01	50,560	.09	56,893	.05
85	BANGOR	0	.00	44,367	.08	44,367	.04
86	ANACORTES	40,871	.07	0	.00	40,871	.04

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RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
87	LONGVIEW	26,200	.05	14,507	.03	40,707	.04
88	AVONDALE	35,845	.06	1,600	.00	37,445	.03
89	JUNEAU	2,695	.00	34,560	.06	37,255	.03
90	REDWOOD CITY	36,000	.06	0	.00	36,000	.03
91	NOME	0	.00	30,465	.05	30,465	.03
92	SAN DIEGO	3,879	.01	24,840	.04	28,719	.03
93	PANAMA CITY	23,948	.04	0	.00	23,948	.02
94	ST. ROSE	22,156	.04	0	.00	22,156	.02
95	CHESTER	0	.00	17,554	.03	17,554	.02
96	STOCKTON	0	.00	16,571	.03	16,571	.01
97	PETERSBURG, ALASKA	8,542	.01	7,049	.01	15,591	.01
98	ASTORIA	0	.00	15,576	.03	15,576	.01
99	SAN JOAQUIN RIVER	0	.00	13,500	.02	13,500	.01
100	SYRACUSE	0	.00	12,781	.02	12,781	.01
101	ST. MICHAEL	0	.00	11,793	.02	11,793	.01
102	NAKNEK	0	.00	11,774	.02	11,774	.01
103	MORGAN CITY	0	.00	9,768	.02	9,768	.01
104	ANCHORAGE	0	.00	7,849	.01	7,849	.01
105	BRUNSWICK	7,336	.01	0	.00	7,336	.01
106	WRANGELL	1,153	.00	5,939	.01	7,092	.01
107	WHITTIER	6,783	.01	0	.00	6,783	.01
108	KINNEGNAK	0	.00	4,855	.01	4,855	.00
109	KALAMA	4,199	.01	0	.00	4,199	.00
110	FAJARDO	0	.00	4,199	.01	4,199	.00
111	PORT HUENEME	0	.00	4,140	.01	4,140	.00
112	REEDVILLE	3,489	.01	0	.00	3,489	.00
113	MELLVILLE	0	.00	3,316	.01	3,316	.00
114	SEWARD	0	.00	3,110	.01	3,110	.00
115	DILLINGHAM	0	.00	2,905	.01	2,905	.00
116	AGUADILLA	0	.00	1,705	.00	1,705	.00
117	LEWES, DEL	0	.00	1,630	.00	1,630	.00
118	SKAGWAY	0	.00	1,175	.00	1,175	.00
119	PONCE	0	.00	945	.00	945	.00
120	BETHEL	794	.00	0	.00	794	.00
121	HOPEWELL	0	.00	700	.00	700	.00
122	PELICAN	0	.00	177	.00	177	.00
123	HOOPER BAY	0	.00	133	.00	133	.00
	* TOTAL FOR ALL PORTS	57,029,110	50.00	57,029,110	50.00	114,058,220	100.00

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REPORT YEAR 1982
U.S DOMESTIC OCEAN WATERBORNE COMMERCE
PORT TONNAGE SHIPPED/RECEIVED BY ALL TYPE VESSELS
(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
1	VALDEZ	89,961,569	23.31	203,094	.05	90,164,663	11.68
2	PUERTO ARMUELLES	30,165,527	7.82	37,914,993	9.82	68,080,520	8.82
3	NEW YORK	30,209,864	7.83	32,809,083	8.50	63,018,947	8.16
4	CHRISTIANSTED	17,010,086	4.41	6,143,931	1.59	23,154,017	3.00
5	TAMPA	4,357,251	1.13	15,633,972	4.05	19,991,223	2.59
6	LONG BEACH	1,001,355	.26	17,100,447	4.43	18,101,802	2.35
7	HOUSTON	9,524,899	2.47	8,257,061	2.14	17,781,960	2.30
8	LOS ANGELES	5,034,878	1.30	10,562,040	2.74	15,596,918	2.02
9	CARQUINEZ STRAIT	4,888,231	1.27	9,312,676	2.41	14,200,907	1.84
10	BATON ROUGE	6,889,293	1.79	7,011,452	1.82	13,900,745	1.80
11	NEW ORLEANS	12,143,243	3.15	1,494,610	.39	13,637,853	1.77
12	BOSTON	802,580	.21	11,124,362	2.88	11,926,942	1.55
13	BELLINGHAM	1,652,050	.43	10,084,866	2.61	11,736,916	1.52
14	BEAUMONT	5,660,492	1.47	4,393,951	1.14	10,054,443	1.30
15	CORPUS CHRISTI	6,668,310	1.73	3,009,148	.78	9,677,458	1.25
16	HONOLULU	3,475,835	.90	6,135,986	1.59	9,611,821	1.25
17	PORT EVERGLADES	490,356	.13	8,960,518	2.32	9,450,874	1.22
18	RICHMOND, CALIF.	3,661,645	.95	5,786,251	1.50	9,447,896	1.22
19	SAN JUAN	2,809,817	.73	5,969,548	1.55	8,779,365	1.14
20	NEW HAVEN	1,713,993	.44	6,541,281	1.69	8,255,274	1.07
21	EL SEGUNDO	2,214,623	.57	5,280,417	1.37	7,495,040	.97
22	DESTREHAN	6,179,448	1.60	1,118,801	.29	7,298,249	.95
23	TEXAS CITY	2,649,335	.69	4,645,829	1.20	7,295,164	.95
24	HUMACAO	3,302,589	.86	3,065,788	.79	6,368,377	.83
25	JACKSONVILLE	956,065	.25	5,370,972	1.39	6,327,037	.82
26	PASCAGOULA	4,593,727	1.19	1,643,517	.43	6,237,244	.81
27	PORT ARTHUR	4,443,306	1.15	1,439,280	.37	5,882,586	.76
28	GRAMERCY	634,167	.16	4,941,602	1.28	5,575,769	.72
29	PROVIDENCE	366,687	.10	4,991,703	1.29	5,358,390	.69
30	MARCUS HOOK	2,178,299	.56	2,957,485	.77	5,135,784	.67
31	PHILADELPHIA	2,947,072	.76	2,166,562	.56	5,113,634	.66
32	PAULSBORO	3,101,171	.80	1,995,874	.52	5,097,045	.66
33	ANACORTES	1,663,889	.43	3,099,318	.80	4,763,207	.62
34	MORRO	4,619,261	1.20	0	.00	4,619,261	.60
35	FREEPORT	941,187	.24	3,523,757	.91	4,464,944	.58
36	LAKE CHARLES	2,921,730	.76	1,355,468	.35	4,277,198	.55
37	ANCHORAGE/UNIMAK	3,294,368	.85	970,919	.25	4,265,287	.55
38	BRIDGEPORT	150,017	.04	3,992,771	1.03	4,142,788	.54
39	SEATTLE	2,237,189	.58	1,780,430	.46	4,017,619	.52
40	PORTLAND, ORE.	388,468	.10	3,435,783	.89	3,824,251	.50
41	BALTIMORE	818,690	.21	2,860,992	.74	3,679,682	.48
42	WILMINGTON, DEL.	2,962,212	.77	586,477	.15	3,548,689	.46
43	PORTLAND, ME.	254,047	.07	3,192,575	.83	3,446,622	.45

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(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
44	SAN PABLO BAY	1,434,825	.37	1,841,255	.48	3,276,080	.42
45	SAN FRANCISCO	64,185	.02	2,962,327	.77	3,026,512	.39
46	CHARLESTON	291,223	.08	2,664,772	.69	2,955,995	.38
47	WILMINGTON, N.C.	104,947	.03	2,466,399	.64	2,571,346	.33
48	GUAYANILLA	793,568	.21	1,340,173	.35	2,133,741	.28
49	SANTA BARBARA CHANNEL ISLAND	2,079,849	.54	0	.00	2,079,849	.27
50	FALL RIVER	88,789	.02	1,921,968	.50	2,010,757	.26
51	KAHULUI	914,530	.24	1,041,092	.27	1,955,622	.25
52	SAVANNAH	595,656	.15	1,309,303	.34	1,904,959	.25
53	ANCHORAGE	141,777	.04	1,722,601	.45	1,864,378	.24
54	ALBANY	1,050,079	.27	782,806	.20	1,832,885	.24
55	HILO	760,093	.20	1,024,400	.27	1,784,493	.23
56	SUISUN BAY	1,096,382	.28	602,376	.16	1,698,758	.22
57	SAN DIEGO	80,509	.02	1,557,777	.40	1,638,286	.21
58	HARTFORD	2,122	.00	1,543,515	.40	1,545,637	.20
59	NEWPORT NEWS	1,200,142	.31	289,624	.08	1,489,766	.19
60	BROWNSVILLE + PT. ISABEL	1,306,148	.34	154,704	.04	1,460,852	.19
61	TACOMA	799,704	.21	499,787	.13	1,299,491	.17
62	OAKLAND + ALAMEDA	809,763	.21	443,678	.11	1,253,441	.16
63	CAMDEN	120,129	.03	1,126,944	.29	1,247,073	.16
64	NORFOLK	101,374	.03	1,078,503	.28	1,179,877	.15
65	VENTURA	942,802	.24	183,915	.05	1,126,717	.15
66	NEW LONDON	70,752	.02	1,044,010	.27	1,114,762	.14
67	MAYAGUEZ	6,908	.00	1,062,143	.28	1,069,051	.14
68	WEST PALM BEACH	597,390	.15	467,916	.12	1,065,306	.14
69	MIAMI	370,836	.10	682,696	.18	1,053,532	.14
70	PORT ANGELES	0	.00	955,545	.25	955,545	.12
71	PORTSMOUTH, N. H.	13,865	.00	906,978	.24	920,843	.12
72	MOBILE	717,678	.19	154,731	.04	872,409	.11
73	NAWILIWILI-PT. ALLEN	382,242	.10	475,572	.12	857,814	.11
74	GALVESTON	697,070	.18	104,051	.03	801,121	.10
75	PORT SAN LUIS	704,332	.18	82,636	.02	786,968	.10
76	BEAUFORT MOREHEAD CITY	17,150	.00	750,751	.19	767,901	.10
77	KENAI	653,612	.17	14,056	.00	667,668	.09
78	ALEUTIAN ISLANDS	235,485	.06	414,208	.11	649,693	.08
79	CARRABELLE	261,366	.07	386,202	.10	647,568	.08
80	KETCHIKAN	64,599	.02	447,567	.12	512,166	.07
81	ST. ROSE	373,514	.10	104,693	.03	478,207	.06
82	EUREKA	0	.00	467,241	.12	467,241	.06
83	COOS BAY	155,484	.04	278,553	.07	434,037	.06
84	SALEM	13,583	.00	415,354	.11	428,937	.06
85	PORT CANAVERAL	0	.00	404,666	.10	404,666	.05
86	BELFAST	17,345	.00	381,355	.10	398,700	.05

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(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
87	NEW BEDFORD	145,731	.04	237,498	.06	383,229	.05
88	LONGVIEW	89,957	.02	269,051	.07	359,008	.05
89	WHITTIER	15,719	.00	309,429	.08	325,148	.04
90	SACRAMENTO	98,350	.03	202,593	.05	300,943	.04
91	PENSACOLA	217,591	.06	77,413	.02	295,004	.04
92	BANGOR	3,250	.00	289,226	.07	292,476	.04
93	POTOMAC RIV.BELOW WASH. D.C.	59,004	.02	220,640	.06	279,644	.04
94	CHARLETTE AMALIE	53,512	.01	205,284	.05	258,796	.03
95	REDWOOD CITY	233,654	.06	0	.00	233,654	.03
96	KODIAK	70,384	.02	149,324	.04	219,708	.03
97	PLYMOUTH	73,394	.02	119,798	.03	193,192	.03
98	FAJARDO	50,164	.01	142,127	.04	192,291	.02
99	SITKA	43,758	.01	127,727	.03	171,485	.02
100	STOCKTON	0	.00	170,947	.04	170,947	.02
101	NO. OF NOME	17,751	.00	143,342	.04	161,093	.02
102	KEY WEST	0	.00	149,897	.04	149,897	.02
103	JUNEAU	11,564	.00	132,663	.03	144,227	.02
104	HOPEWELL	51,072	.01	80,513	.02	131,585	.02
105	BOCAGRANDE	520	.00	116,655	.03	117,175	.02
106	LOUISIANA OFFSHORE OIL PORT	33,069	.01	83,398	.02	116,467	.02
107	GUAM ISLAND	0	.00	113,876	.03	113,876	.01
108	SAN JOAQUIN RIVER	51,669	.01	54,381	.01	106,050	.01
109	BETHEL	34,384	.01	52,930	.01	87,314	.01
110	GUANICA	57,432	.01	29,041	.01	86,473	.01
111	SEARSPORT	9,817	.00	74,761	.02	84,578	.01
112	GLOUCESTER CITY, N.J.	0	.00	83,349	.02	83,349	.01
113	PORT HUENEME	25,975	.01	48,869	.01	74,844	.01
114	MELLVILLE	15,537	.00	56,347	.01	71,884	.01
115	NAKNEK	8,802	.00	62,383	.02	71,185	.01
116	RICHMOND-PETERSBURG	0	.00	64,961	.02	64,961	.01
117	GEORGETOWN	0	.00	64,609	.02	64,609	.01
118	ASTORIA	0	.00	54,186	.01	54,186	.01
119	PORT LAVACA	0	.00	52,282	.01	52,282	.01
120	KINNEGNAK	3,004	.00	44,978	.01	47,982	.01
121	NOME	2,496	.00	42,398	.01	44,894	.01
122	DILLINGHAM	4,540	.00	38,294	.01	42,834	.01
123	ABERDEEN-HOQUIAM	37,695	.01	0	.00	37,695	.00
124	AVONDALE	35,845	.01	1,670	.00	37,515	.00
125	MORGAN CITY	23,115	.01	12,216	.00	35,331	.00
126	PETERSBURG, ALASKA	15,246	.00	12,462	.00	27,708	.00
127	ST. PETERSBURG	0	.00	27,072	.01	27,072	.00
128	PONCE	15,344	.00	10,025	.00	25,369	.00
129	EVERETT	25,167	.01	0	.00	25,167	.00

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RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
130	PANAMA CITY	24,643	.01	300	.00	24,943	.00
131	KALAMA	24,299	.01	0	.00	24,299	.00
132	SEWARD	2,061	.00	20,989	.01	23,050	.00
133	CHESTER	4,681	.00	17,554	.00	22,235	.00
134	NEWPORT, ORE.	20,594	.01	0	.00	20,594	.00
135	BRUNSWICK	18,723	.00	0	.00	18,723	.00
136	KING COVE	6,448	.00	10,624	.00	17,072	.00
137	NEWPORT	0	.00	16,658	.00	16,658	.00
138	VANCOUVER	4,400	.00	11,516	.00	15,916	.00
139	EVANSVILLE	800	.00	13,429	.00	14,229	.00
140	WRANGELL	1,627	.00	11,778	.00	13,405	.00
141	ST. MICHAEL	283	.00	12,664	.00	12,947	.00
142	SYRACUSE	0	.00	12,781	.00	12,781	.00
143	ST. LAWRENCE ISL.	866	.00	8,956	.00	9,822	.00
144	CHATTANOOGA	7,928	.00	0	.00	7,928	.00
145	JONESPORT	0	.00	5,706	.00	5,706	.00
146	ST. LOUIS	300	.00	5,258	.00	5,558	.00
147	PELICAN	2,874	.00	2,410	.00	5,284	.00
148	PORT TOWNSEND	252	.00	4,267	.00	4,519	.00
149	CHICAGO	0	.00	3,921	.00	3,921	.00
150	REEDVILLE	3,489	.00	0	.00	3,489	.00
151	EASTPORT	691	.00	2,763	.00	3,454	.00
152	ST. AUGUSTINE	2,992	.00	0	.00	2,992	.00
153	YUKON RIVER	17	.00	2,798	.00	2,815	.00
154	CINCINNATI	0	.00	2,698	.00	2,698	.00
155	TULSA	2,606	.00	0	.00	2,606	.00
156	FORT SMITH	0	.00	2,602	.00	2,602	.00
157	ROCKLAND	562	.00	1,956	.00	2,518	.00
158	EGEGIK	882	.00	1,461	.00	2,343	.00
159	PITTSBURG, PA.	1,190	.00	1,023	.00	2,213	.00
160	HOOPER BAY	2	.00	1,950	.00	1,952	.00
161	AGUADILLA	0	.00	1,705	.00	1,705	.00
162	LEWES, DEL.	0	.00	1,630	.00	1,630	.00
163	PEORIA	0	.00	1,373	.00	1,373	.00
164	VICKSBURG	0	.00	1,307	.00	1,307	.00
165	OLD HARBOR	445	.00	846	.00	1,291	.00
166	SKAGWAY	0	.00	1,175	.00	1,175	.00
167	BATH	33	.00	654	.00	687	.00
168	FORT PIERCE	0	.00	450	.00	450	.00
169	APALACHICOLA	0	.00	400	.00	400	.00
170	MEMPHIS	330	.00	0	.00	330	.00
171	ALAKANUK	0	.00	253	.00	253	.00
172	ELIZABETH CITY	0	.00	210	.00	210	.00

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RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
173	MARSHALL	0	.00	60	.00	60	.00
174	MCGRATH POINT	19	.00	8	.00	27	.00
175	FAIRBANKS	4	.00	0	.00	4	.00
	* TOTAL FOR ALL PORTS	313,839,181	50.00	313,839,181	50.00	627,678,362	100.00

NOTE: PERCENT COLUMN TOTALS MAY NOT EQUAL 100 PERCENT BECAUSE OF STATISTICAL ROUNDING

PROFILE OF THE NORTH ATLANTIC TRADE

FROM EASTPORT, MAINE TO THE BOUNDARY OF
VIRGINIA/NORTH CAROLINA

TOTAL ANNUAL TRAFFIC (SHORT TONS)

1978	117,980,243
1979	112,977,318
1980	107,687,360
1981	95,265,257
1982	88,293,948

PRINCIPAL COMMODITIES OF TRADE
FOR CALENDAR YEAR 1982

COMMODITY	TONNAGE	PERCENT
GASOLINE, INC ADDITIVES	21,831,859	24.7%
RESIDUAL FUEL OIL	19,968,969	22.6%
DISTILLATE FUEL OIL	19,310,738	21.8%
CRUDE PETROLEUM	6,889,482	07.8%
SAND,GRAVEL AND CRUSHED ROCK	3,394,202	03.8%
JET FUEL	2,643,495	02.9%
BASIC CHEMICALS + PRODTS, NEC	1,921,544	02.1%
ASPHALT,TAR, AND PITCHES	1,787,975	02.0%
LUBRICATING OILS AND GREASES	1,688,993	01.9%
MISCELLANEOUS SHIPMENTS, NEC	1,318,296	01.4%
ALL OTHER COMMODITIES	7,538,395	08.5%
	88,293,948	

NOTE: TOTALS MAY NOT EQUAL 100 PERCENT BECAUSE OF STATISTICAL ROUNDING

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PROFILE OF THE SOUTH ATLANTIC TRADE
FROM BOUNDARY OF VIRGINIA/NORTH CAROLINA
TO FLORIDA KEYS

TOTAL ANNUAL TRAFFIC (SHORT TONS)

1978	30,818,664
1979	30,663,252
1980	31,945,504
1981	29,349,271
1982	25,649,920

PRINCIPAL COMMODITIES OF TRADE
FOR CALENDAR YEAR 1982

COMMODITY	TONNAGE	PERCENT
Gasoline, Inc. Additives	9,304,576	36.3
Residual Fuel Oil	4,221,019	16.4
Jet Fuel	2,980,995	11.6
Distillate Fuel Oil	2,679,976	10.4
Basic Chemicals & Prodts, Nec	933,449	3.6
Asphalt, Tar, and Pitches	878,351	3.4
Sugar	599,731	2.3
Sulphur, Liquid	509,379	1.9
Miscellaneous Shipments, Nec	478,020	1.8
Crude Petroleum	360,641	1.4
All Other Commodities	2,703,783	10.4
Total	25,649,920	

Note: Totals may not equal 100 percent because of statistical rounding.

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PROFILE OF THE GULF TRADE

FROM FLORIDA KEYS TO BROWNSVILLE, TEXAS

TOTAL ANNUAL TRAFFIC (SHORT TONS)

1978	99,264,968
1979	104,208,173
1980	117,125,366
1981	111,735,041
1982	102,605,182

PRINCIPAL COMMODITIES OF TRADE
FOR CALENDAR YEAR 1982

COMMODITY	TONNAGE	PERCENT
CRUDE PETROLEUM	33,321,736	32.4%
GASOLINE, INC ADDITIVES	17,484,276	17.0%
RESIDUAL FUEL OIL	15,300,760	14.9%
DISTILLATE FUEL OIL	9,805,023	09.5%
JET FUEL	4,898,240	04.7%
PHOSPHATE ROCK	3,992,701	03.8%
SULPHUR,LIQUID	3,031,224	02.9%
COAL AND LIGNITE	2,776,087	02.7%
BASIC CHEMICALS + PRODTS, NEC	2,691,999	02.6%
LUBRICATING OILS AND GREASES	1,681,294	01.6%
ALL OTHER COMMODITIES	7,621,842	07.4%
	102,605,182	

NOTE: TOTALS MAY NOT EQUAL 100 PERCENT BECAUSE OF STATISTICAL ROUNDING

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PROFILE OF THE CALIFORNIA TRADE

STATE OF CALIFORNIA

TOTAL ANNUAL TRAFFIC (SHORT TONS)

1978	64,345,776
1979	76,341,261
1980	81,402,947
1981	77,793,788
1982	69,054,932

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PRINCIPAL COMMODITIES OF TRADE
FOR CALENDAR YEAR 1982

COMMODITY	TONNAGE	PERCENT
CRUDE PETROLEUM	42,578,408	61.6%
RESIDUAL FUEL OIL	9,886,323	14.3%
DISTILLATE FUEL OIL	5,106,222	07.3%
GASOLINE, INC ADDITIVES	3,797,212	05.4%
JET FUEL	1,342,550	01.9%
SUGAR	794,052	01.1%
LUBRICATING OILS AND GREASES	787,606	01.1%
BASIC CHEMICALS + PRODTS, NEC	592,525	00.8%
MISCELLANEOUS SHIPMENTS, NEC	452,046	00.6%
SODIUM HYDROXIDE-CAUSTIC SODA	358,156	00.5%
ALL OTHER COMMODITIES	3,359,832	04.8%
	69,054,932	

NOTE: TOTALS MAY NOT EQUAL 100 PERCENT BECAUSE OF STATISTICAL ROUNDING

PROFILE OF THE PACIFIC NW TRADE
STATES OF OREGON AND WASHINGTON

TOTAL ANNUAL TRAFFIC (SHORT TONS)

1978	24,539,298
1979	25,530,690
1980	25,801,422
1981	25,255,291
1982	26,535,421

PRINCIPAL COMMODITIES OF TRADE
FOR CALENDAR YEAR 1982

COMMODITY	TONNAGE	PERCENT
Crude Petroleum	13,467,637	50.7
Residual Fuel Oil	3,885,553	14.6
Distillate Fuel Oil	2,007,027	7.5
Gasoline, Inc. Additives	1,677,383	6.3
Miscellaneous Shipments, Nec	889,617	3.3
Jet Fuel	726,224	2.7
Lumber	585,950	2.2
Basic Chemicals & Prodts., Nec	368,407	1.3
Nitrog Chem Fertilizer Ex Mixt	221,180	0.8
Building Cement	203,360	0.7
All Other Commodities	2,503,083	9.4
Total	26,535,421	

Note: Totals may not equal 100 percent because of statistical rounding.

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PROFILE OF THE HAWAII TRADE

STATE OF HAWAII

TOTAL ANNUAL TRAFFIC (SHORT TONS)

1978	9,427,143
1979	10,918,828
1980	9,485,446
1981	10,915,229
1982	10,422,472

PRINCIPAL COMMODITIES OF TRADE
FOR CALENDAR YEAR 1982

COMMODITY	TONNAGE	PERCENT
CRUDE PETROLEUM	1,987,978	19.0%
RESIDUAL FUEL OIL	1,026,990	09.8%
FABR METL PROD EXC ORD MACH	982,193	09.4%
SUGAR	850,119	08.1%
MISCELLANEOUS SHIPMENTS, NEC	759,471	07.2%
DISTILLATE FUEL OIL	429,333	04.1%
FRUT&FRUT&VEG JUCES-CAN,PRESV	410,651	03.9%
MOTOR VEHICALS,PARTS + EQUIPMT	406,760	03.9%
FRESH FRUITS	373,193	03.5%
MOLASSES	338,641	03.2%
ALL OTHER COMMODITIES	2,857,143	27.4%
	10,422,472	

NOTE: TOTALS MAY NOT EQUAL 100 PERCENT BECAUSE OF STATISTICAL ROUNDING

PROFILE OF THE ALASKA TRADE
STATE OF ALASKA

TOTAL ANNUAL TRAFFIC (SHORT TONS)

1978	46,548,808
1979	70,011,115
1980	87,859,975
1981	93,103,443
1982	97,827,871

PRINCIPAL COMMODITIES OF TRADE
FOR CALENDAR YEAR 1982

COMMODITY	TONNAGE	PERCENT
Crude Petroleum	91,792,743	93.8
Residual Fuel Oil	1,281,593	1.3
Miscellaneous Shipments, Nec	853,071	0.8
Distillate Fuel Oil	772,669	0.7
Jet Fuel	459,162	0.4
Basic Chemicals & Prodts, Nec	456,904	0.4
Gasoline, Inc. Additives	249,425	0.2
Ni*rog Chem Fertilizer Ex Mixt	223,144	0.2
Lumber	206,533	0.2
Building Cement	181,954	0.1
All Other Commodities	1,350,673	1.3
Total	97,827,871	

Note: Totals may not equal 100 percent because of statistical rounding.

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PROFILE OF THE PUERTO RICO TRADE
COMMONWEALTH OF PUERTO RICO

TOTAL ANNUAL TRAFFIC (SHORT TONS)

1978	15,359,924
1979	17,443,588
1980	20,280,696
1981	17,052,451
1982	16,074,531

PRINCIPAL COMMODITIES OF TRADE
FOR CALENDAR YEAR 1982

COMMODITY	TONNAGE	PERCENT
Crude Petroleum	3,747,181	23.3
Residual Fuel Oil	2,239,173	13.9
Miscellaneous Shipments, Nec	1,643,143	10.2
Gasoline, Inc. Additives	1,470,154	9.1
Distillate Fuel Oil	1,057,332	6.6
Basic Chemicals & Prodts., Nec	1,039,075	6.4
Naphtha, Mineral, Spirits, Solvn	695,425	4.3
Lubricating Oils and Greases	573,533	3.6
Miscellaneous Food Products	538,766	3.3
Corn	200,356	1.2
All Other Commodities	2,870,393	17.9
Total	16,074,531	

Note: Totals may not equal 100 percent because of statistical rounding.

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PROFILE OF THE VIRGIN ISLAND TRADE

TERRITORY OF VIRGIN ISLANDS

TOTAL ANNUAL TRAFFIC (SHORT TONS)

1978	24,376,413
1979	26,858,747
1980	31,244,111
1981	27,912,914
1982	23,184,121

PRINCIPAL COMMODITIES OF TRADE
FOR CALENDAR YEAR 1982

COMMODITY	TONNAGE	PERCENT
RESIDUAL FUEL OIL	9,106,691	39.2%
CRUDE PETROLEUM	5,997,689	25.8%
GASOLINE, INC ADDITIVES	3,354,224	14.4%
DISTILLATE FUEL OIL	2,895,895	12.4%
JET FUEL	649,973	02.8%
BASIC CHEMICALS + PRODTS, NEC	549,674	02.3%
KEROSENE	322,673	01.3%
BENZINE,TOLUENE,CRUDE,COM PURE	177,510	00.7%
MISCELLANEOUS SHIPMENTS, NEC	36,903	00.1%
MISC.NONMETALLIC MINERAL PRODS	12,254	00.0%
ALL OTHER COMMODITIES	80,635	00.3%
	23,184,121	

NOTE: TOTALS MAY NOT EQUAL 100 PERCENT BECAUSE OF STATISTICAL ROUNDING

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PROFILE OF THE PACIFIC ISLAND TRADE

PACIFIC ISLANDS (GUAM-MIDWAY-WAKE ISLANDS)

TOTAL ANNUAL TRAFFIC (SHORT TONS)

1978	324,412
1979	207,836
1980	169,431
1981	101,678
1982	113,876

PRINCIPAL COMMODITIES OF TRADE
FOR CALENDAR YEAR 1982

COMMODITY	TONNAGE	PERCENT
BASIC TEXT PROD EX TEXT FIBERS	34,737	30.5%
MISCELLANEOUS SHIPMENTS, NEC	27,157	23.8%
FABR METL PROD EXC ORD MACH	6,451	05.6%
ASPHALT,TAR, AND PITCHES	6,016	05.2%
MISCELLANEOUS FOOD PRODUCTS	5,996	05.2%
GLASS AND GLASS PRODUCTS	4,815	04.2%
ELEC MACH,EQUIPMENT + SUPPLIES	3,498	03.0%
GASOLINE, INC ADDITIVES	3,155	02.7%
PRINTED MATTER	2,753	02.4%
IRON + STEEL PIPE + TUBE	2,335	02.0%
ALL OTHER COMMODITIES	16,963	14.8%
	113,876	

NOTE: TOTALS MAY NOT EQUAL 100 PERCENT BECAUSE OF STATISTICAL ROUNDING

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PROFILE OF THE PANAMA TRADE
COUNTRY OF PANAMA

TOTAL ANNUAL TRAFFIC (SHORT TONS)

1978	37,209,034
1979	21,899,814
1980	44,682,267
1981	57,506,485
1982	68,080,520

PRINCIPAL COMMODITIES OF TRADE
FOR CALENDAR YEAR 1982

COMMODITY	TONNAGE	PERCENT
Crude Petroleum	68,080,520	100

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PART THREE

GREAT LAKES TRADE

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. . .A Vital Transportation Link

The St. Lawrence Seaway system is a dynamic international waterway extending from the Atlantic Ocean as far inland as Duluth, Minnesota—a distance farther west than St. Louis, Missouri. Encompassed by this magnificent water transportation system are the five Great Lakes, the mighty St. Lawrence River and various connecting channels.

With the aid of a series of modern Seaway locks, each year thousands of ships from nearly 50 nations are raised and lowered the height of a 60-story building. This deep-draft navigation route is thus able to function as an essential lifeline between North America's agricultural and industrial heartland, and overseas trade centers.

Cargoes such as iron ore and steel that are vital to U.S. industrial production and national defense regularly move across Seaway waters, as do many of the Midwest's agricultural products which help feed the world's population. Located along the Seaway system are some of North America's largest cities and seaports, and because of their proximity to the "Fourth Seacoast," these municipalities and their hinterlands realize billions of dollars in economic benefits each year.

The Seaway system serves Midwest farmers and manufacturers as a highly cost effective, energy efficient form of transportation. By its very existence, the Seaway holds down rates charged by competing transportation systems. This results in significantly lower costs to users and consumers.

The Great Circle Route makes many Great Lakes ports actually closer to points on the European Continent than are the tidewater ports on North America's East Coast. Over a score of the Great Lakes ports can accommodate deep-draft ocean vessels and the total shipping costs are competitive with alternative routings.

As a water route, the Seaway system enjoys a distinct energy savings advantage over rail, highway and air transportation. Railroads, for example, would have to more than double their fuel efficiency to equal that of the Seaway, which can move a ton of freight over 500 miles on a gallon of fuel. This Seaway advantage will become even more significant as more world nations seek energy conservation.

The system that today is generally regarded as "the Seaway" was made possible by the construction of the joint U.S.-Canadian St. Lawrence Seaway navigation project during the late 1950s.

The project encompassed a 190-mile section of the St. Lawrence River between Montreal and Lake Ontario, and was one of the greatest engineering marvels in history. It produced a waterway that is longer than either the Suez or Panama canals, and contains more locks than the Panama Canal (the Suez has no locks).

When the project was completed in 1959, the Great Lakes became linked with the Atlantic Ocean to form a continuous shipping lane for deep-draft navigation. Saltwater freighters as long as 730 feet, with drafts up to 26 feet, can now sail directly to and from the center of North America.

Statistical evidence of the Seaway's success during its first 20 years shows that: cargo tonnage tripled, to an average annual volume of over 50 million metric tons; the 20-year total amounted to nearly 900 million metric tons; $60 million — representing almost half of the U.S. investment — was returned to the U.S. Treasury from toll revenues; revenues collected by the U.S. and Canada from tolls charged vessels using Seaway facilities totaled $550 million — more than equaling the combined initial U.S.-Canadian investment in the Seaway; and the shipping season was extended from 7½ months to 8½ months as a result of new ice navigation technology employed by the two nations.

To prepare for the future, the Seaway agencies have been working for years with other agencies and experts to develop, obtain and employ new technology to lengthen the navigation season. Studies to expand Seaway facilities also are well under way.

The Seaway has served and will continue to serve the heart of two great nations in North America. Concentrated just in the eight-state Great Lakes area of the U.S. is 34% of the Nation's population and 40% of its manufacturing establishments. These states, which all border on the Seaway system, also are the source of about one third of the Nation's Gross National Product and about one-fourth of its farm income.

This mid-continent region continues to grow dramatically and as long as it does, there will be the need for the Seaway to move grain, iron ore, coal, manufactured goods and other vital cargoes to consumers throughout the world. ■

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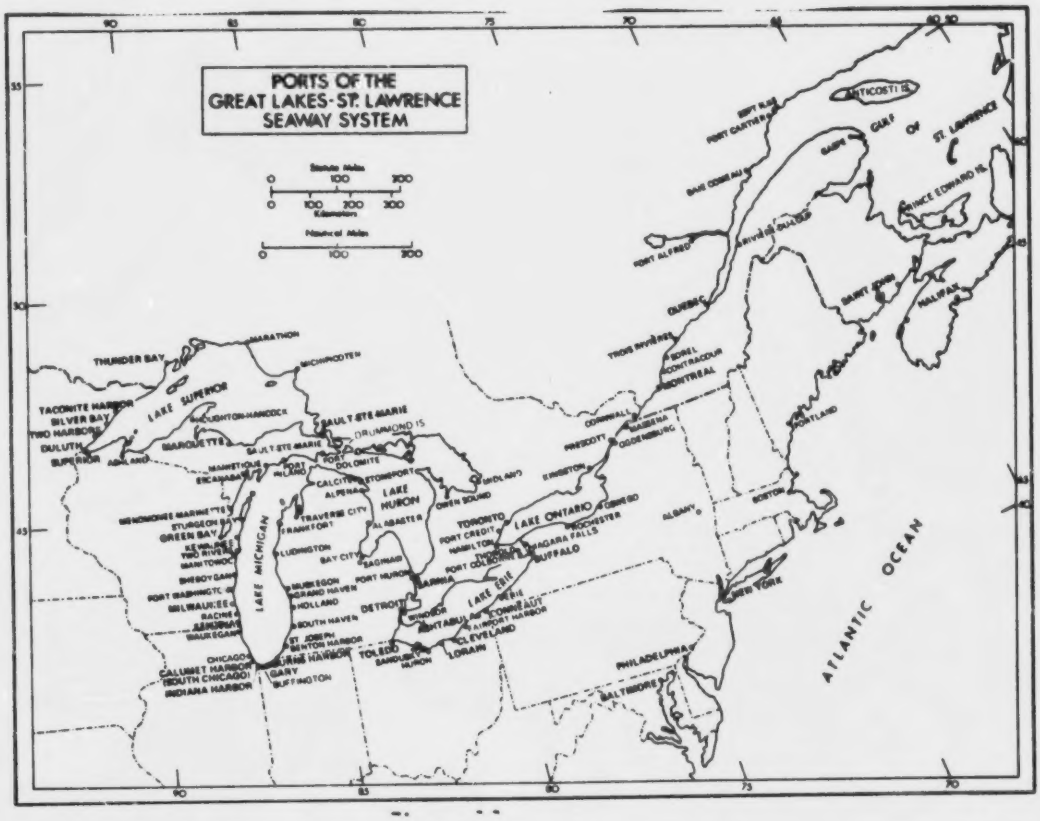

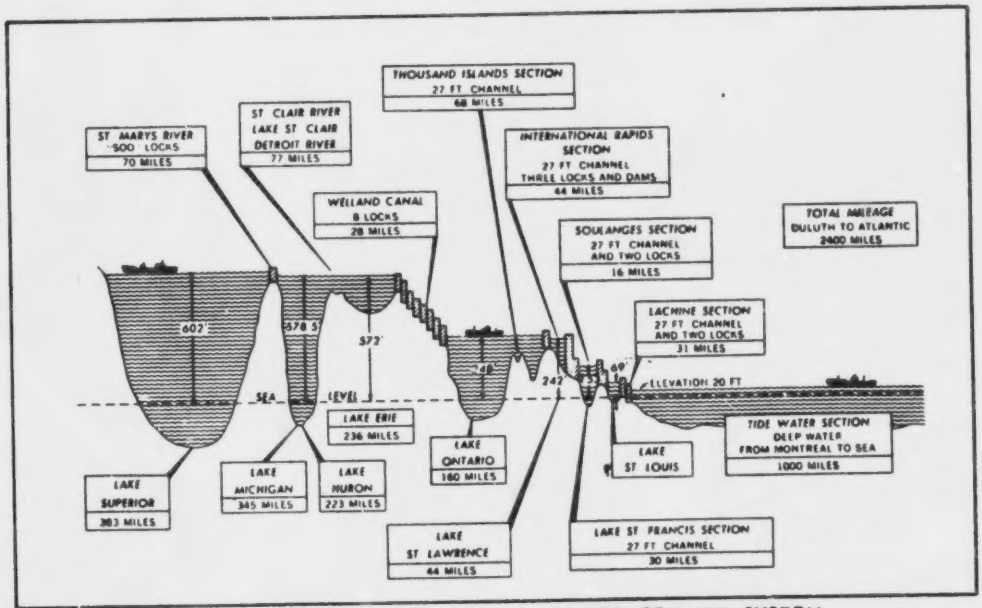

PROFILE OF GREAT LAKES - ST. LAWRENCE SEAWAY SYSTEM

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U.S. GREAT LAKES DOMESTIC AND FOREIGN WATERBORNE COMMERCE

(Thousands of Short Tons and Percentage of Total)

	1978	1979	1980	1981	1982
DOMESTIC	150,774 (68%)	151,209 (67%)	122,922 (67%)	121,905 (66%)	76,994 (61%)
TRANSLAKES (U.S. & Canada)	50,878 (23%)	57,416 (26%)	50,631 (28%)	53,771 (29%)	41,243 (32%)
OTHER FOREIGN	19,722 (09%)	16,340 (07%)	9,961 (05%)	9,439 (05%)	9,152 (07%)
TOTAL	219,679 (100%)	224,965 (100%)	183,514 (100%)	185,115 (100%)	127,389 (100%)

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U.S. GREAT LAKES DOMESTIC WATERBORNE COMMERCE BY TYPE VESSEL

Thousands of Short Tons and Percentage of Total

	1978		1979		1980		1981		1982	
SELF-PROPELLED DRY CARGO VESSEL	142,677	(95%)	143,162	(95%)	114,305	(93%)	115,939	(95%)	73,099	(95%)
SELF-PROPELLED TANKER VESSEL	2,842	(02%)	2,961	(02%)	2,508	(02%)	1,446	(01%)	1,187	(02%)
NON-SELF-PROPELLED DRY CARGO BARGE	2,284	(01%)	2,130	(01%)	3,245	(03%)	1,946	(02%)	891	(01%)
NON-SELF-PROPELLED TANK BARGE	2,971	(02%)	2,956	(02%)	2,864	(02%)	2,574	(02%)	1,817	(02%)
TOTAL	150,774	(100%)	151,209	(100%)	122,922	(100%)	121,905	(100%)	76,994	(100%)

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SUMMARY OF PRINCIPAL COMMODITIES CARRIED IN U.S. GREAT LAKES DOMESTIC WATERBORNE COMMERCE
(THOUSANDS OF SHORT TONS AND PERCENTAGE OF TOTAL)

Commodity	1978		1979		1980		1981		1982	
Iron Ore & Concentrates	78,865	(52%)	78,523	(52%)	64,429	(52%)	68,819	(56%)	36,421	(47%)
Limestone	29,662	(20%)	25,543	(17%)	21,017	(17%)	19,117	(16%)	12,626	(16%)
Coal & Lignite	23,907	(16%)	24,756	(16%)	23,382	(19%)	21,412	(17%)	18,398	(24%)
Sand, Gravel & Crushed Stone	3,255	(02%)	3,406	(02%)	804 2/	(01%)	905 2/	(01%)	522	(01%)
Building Cement	3,786	(02%)	3,452	(02%)	3,066	(03%)	2,530	(02%)	2,196	(03%)
Distillate Fuel Oil	1,478	(01%)	1,723	(01%)	984	(01%)	777	(01%)	667	(01%)
Gasoline	1,491	(01%)	1,261	(01%)	1,200	(01%)	867	(01%)	696	(01%)
Residual Fuel Oil	1,712	(01%)	2,338 1/	(02%)	1,667	(01%)	1,411	(01%)	811	(01%)
Non-Metallic Minerals	927	(01%)	1,299 1/	(01%)	643	(01%)	710	(01%)	659	(01%)
Wheat	1,604	(01%)	1,364	(01%)	1,524	(01%)	1,367	(01%)	1,471	(02%)
All Other Commodities	4,087	(03%)	7,544	(05%)	4,206	(03%)	3,990	(03%)	2,526	(03%)
Total	150,774	(100%)	151,209	(100%)	122,922	(100%)	121,905	(100%)	76,994	(100%)

1/ Gypsum, crude and plasters (1979)
Non-Metallic Minerals - 1978, 1980-82

2/ Gypsum, crude and plasters (1980-81)
Sand, Gravel and Crushed Stone - 1978-1979, 1982

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PROFILE OF THE GREAT LAKES TRADE
UNITED STATES GREAT LAKES AREA

TOTAL ANNUAL TRAFFIC (SHORT TONS)

1974	155,284,205
1975	137,088,599
1976	140,313,516
1977	116,855,416
1978	150,774,479
1979	151,208,771
1980	122,921,852
1981	121,905,293
1982	76,994,062

PRINCIPAL COMMODITIES OF TRADE
FOR CALENDAR YEAR 1982

COMMODITY	TONNAGE	PERCENT
Iron Ore & Concentrates	36,420,758	47
Coal & Lignite	18,398,191	24
Limestone	12,626,405	16
Building Cement	2,195,628	3
Wheat	1,471,116	2
Residual Fuel Oil	811,101	1
Gasoline	696,130	1
Distillate Fuel Oil	667,130	1
Non-Metallic Minerals	659,236	1
Sand, Gravel & Crushed Rock	521,994	1
All Other Commodities	2,526,373	3
Totals	76,994,062	100

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U.S. GREAT LAKES FLEET
1897 - 1983

(SELF-PROPELLED VESSELS OF 1,000 GROSS TONS AND OVER)

TYPE OF VESSELS

Year Built	Age	Bulk Carriers No.	Bulk Carriers DWT	Tankers No.	Tankers DWT	Others[1/]	Total All Vessels
1897-1933	Over 50	43	531,975	2	13,166	4	49
1934-1951	30-50	49	967,325	1	7,709	5	55
1954-1963	20-30	8	217,800	0	---	0	8
1964-1973	10-20	7	261,300	0	---	0	7
1974-1983	Under 10	20[2/]	1,059,700[2/]	4	28,755	0	24
Total		127[2/]	3,038,100[2/]	7	49,630	9	143

1/ Railroad Cars - Passenger Car Ferries

2/ Includes intergrated tug-barge "Presque Isle" of 57,000 DWT which for operations purpose considered a vessel.

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REPORT YEAR 1982
U.S. GREAT LAKES WATERBORNE COMMERCE
PORT TONNAGE SHIPPED/RECEIVED BY SELF PROPELLED DRY CARGO VESSEL
(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
1	SUPERIOR	12,525,152	18.30	561,816	.82	13,086,968	9.56
2	TOLEDO	6,614,147	9.66	5,323,318	7.78	11,937,465	8.72
3	DULUTH	10,842,372	15.84	791,456	1.16	11,633,828	8.50
4	DETROIT	103,567	.15	10,798,706	15.78	10,902,273	7.97
5	EAST CHICAGO	9,300	.01	9,594,649	14.02	9,603,949	7.02
6	ESCANABA	8,018,645	11.72	315,984	.46	8,334,629	6.09
7	CLEVELAND	321,692	.47	6,504,617	9.50	6,826,309	4.99
8	SILVER BAY	6,150,561	8.99	199,983	.29	6,350,544	4.64
9	LORAIN	1,677,934	2.45	3,613,811	5.28	5,291,745	3.87
10	ALPENA	4,705,422	6.88	492,085	.72	5,197,507	3.80
11	CHICAGO	2,591,782	3.79	2,097,180	3.06	4,688,962	3.43
12	GARY	10,300	.02	4,414,393	6.45	4,424,693	3.23
13	ROGERS CITY	3,902,209	5.70	372,363	.54	4,274,572	3.12
14	PORT HURON	0	.00	3,600,734	5.26	3,600,734	2.63
15	BURNS HARBOR	44,380	.06	3,415,595	4.99	3,459,975	2.53
16	BUFFALO	539,028	.79	2,412,800	3.53	2,951,828	2.16
17	SANDUSKY	2,594,044	3.79	54,261	.08	2,648,305	1.93
18	MILWAUKEE	632,925	.92	1,771,445	2.59	2,404,370	1.76
19	MUSKEGON	395,230	.58	1,992,353	2.91	2,387,583	1.74
20	MARQUETTE	878,124	1.28	1,426,013	2.08	2,304,137	1.68
21	ASHTABULA	807,667	1.18	1,438,488	2.10	2,246,155	1.64
22	CONNEAUT	1,360,551	1.99	413,869	.60	1,774,420	1.30
23	GREEN BAY	0	.00	1,764,734	2.58	1,764,734	1.29
24	SAULT STE. MARIE	1,333,717	1.95	22,942	.03	1,356,659	.99
25	SAGINAW-BAY CITY	307,830	.45	838,135	1.22	1,145,965	.84
26	FAIRPORT	245,042	.36	860,161	1.26	1,105,203	.81
27	HURON	15,213	.02	1,077,682	1.57	1,092,895	.80
28	MANITOWOC	381,559	.56	474,473	.69	856,032	.63
29	TRAVERSE CITY	541,140	.79	275,504	.40	816,644	.60
30	DE TOUR VILLAGE	676,924	.99	0	.00	676,924	.49
31	ERIE	14,428	.02	407,468	.60	421,896	.31
32	FERRYSBURG	180,683	.26	127,256	.19	307,939	.22
33	ASHLAND	6,860	.01	188,233	.28	195,093	.14
34	BENTON HARBOR	0	.00	170,362	.25	170,362	.12
35	HOLLAND	0	.00	162,490	.24	162,490	.12
36	MARINETTE	0	.00	118,545	.17	118,545	.09
37	WAUKEGAN	0	.00	113,997	.17	113,997	.08
38	SHEBOYGAN	0	.00	107,294	.16	107,294	.08
39	GRAND HAVEN	0	.00	86,732	.13	86,732	.06
40	OSWEGO	0	.00	25,343	.04	25,343	.02
41	STURGEON BAY	6,095	.01	6,095	.01	12,190	.01
42	GRAND PORTAGE	712	.00	1,154	.00	1,866	.00
43	MACKINAC ISLAND	108	.00	1,220	.00	1,328	.00

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NOTE: PERCENT COLUMN TOTALS MAY NOT EQUAL 100 PERCENT BECAUSE OF STATISTICAL ROUNDING

REPORT YEAR 1982
U.S. GREAT LAKES WATERBORNE COMMERCE
PORT TONNAGE SHIPPED/RECEIVED BY SELF PROPELLED DRY CARGO VESSEL
(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
44	CHEBOYGAN	448	.00	52	.00	500	.00
	* TOTAL FOR ALL PORTS	68,435,791	50.00	68,435,791	50.00	136,871,582	100.00

NOTE: PERCENT COLUMN TOTALS MAY NOT EQUAL 100 PERCENT BECAUSE OF STATISTICAL ROUNDING

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REPORT YEAR 1982
U.S. GREAT LAKES WATERBORNE COMMERCE
PORT TONNAGE SHIPPED/RECEIVED BY SELF PROPELLED TANKER VESSEL
(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
1	EAST CHICAGO	615,073	56.48	31,523	2.89	646,596	29.69
2	BUFFALO	80,251	7.37	217,740	20.00	297,991	13.68
3	ESCANABA	0	.00	251,020	23.05	251,020	11.53
4	TRAVERSE CITY	0	.00	175,896	16.15	175,896	8.08
5	TOLEDO	162,593	14.93	7,640	.70	170,233	7.82
6	DETROIT	127,452	11.70	18,570	1.71	146,022	6.70
7	MACKINAC ISLAND	0	.00	102,149	9.38	102,149	4.69
8	CLEVELAND	12,629	1.16	55,670	5.11	68,299	3.14
9	ALPENA	0	.00	64,743	5.95	64,743	2.97
10	CHEBOYGAN	0	.00	64,179	5.89	64,179	2.95
11	SAULT STE. MARIE	0	.00	38,521	3.54	38,521	1.77
12	MARQUETTE	5,771	.53	28,178	2.59	33,949	1.56
13	SAGINAW-BAY CITY	25,970	2.38	3,440	.32	29,410	1.35
14	PORT HURON	23,113	2.12	0	.00	23,113	1.06
15	SUPERIOR	22,963	2.11	0	.00	22,963	1.05
16	OSWEGO	0	.00	15,430	1.42	15,430	.71
17	GREEN BAY	13,130	1.21	0	.00	13,130	.60
18	MUSKEGON	0	.00	11,095	1.02	11,095	.51
19	DE TOUR VILLAGE	0	.00	3,151	.29	3,151	.14
	* TOTAL FOR ALL PORTS	1,088,945	50.00	1,088,945	50.00	2,177,890	100.00

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NOTE: PERCENT COLUMN TOTALS MAY NOT EQUAL 100 PERCENT BECAUSE OF STATISTICAL ROUNDING

REPORT YEAR 1982
U.S. GREAT LAKES WATERBORNE COMMERCE
PORT TONNAGE SHIPPED/RECEIVED BY NON-SELF PROPELLED DRY CARGO BARGE
(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
1	GARY	26,814	3.19	440,916	52.39	467,730	27.79
2	DULUTH	440,916	52.39	0	.00	440,916	26.20
3	CLEVELAND	53,500	6.36	97,728	11.61	151,228	8.99
4	BUFFALO	15,500	1.84	93,020	11.05	108,520	6.45
5	CHICAGO	27,650	3.29	51,479	6.12	79,129	4.70
6	EAST CHICAGO	26,661	3.17	46,996	5.58	73,657	4.38
7	BENTON HARBOR	0	.00	65,750	7.81	65,750	3.91
8	MUSKEGON	58,231	6.92	0	.00	58,231	3.46
9	SUPERIOR	57,120	6.79	0	.00	57,120	3.39
10	DETROIT	27,400	3.26	15,500	1.84	42,900	2.55
11	ESCANABA	20,851	2.48	9,800	1.16	30,651	1.82
12	ROGERS CITY	28,368	3.37	0	.00	28,368	1.69
13	SAULT STE. MARIE	19,796	2.35	0	.00	19,796	1.18
14	PRESQUE ISLE	17,000	2.02	0	.00	17,000	1.01
15	MARQUETTE	11,357	1.35	450	.05	11,807	.70
16	MACKINAC ISLAND	9,487	1.13	0	.00	9,487	.56
17	TRAVERSE CITY	0	.00	9,487	1.13	9,487	.56
18	SHEBOYGAN	0	.00	8,250	.98	8,250	.49
19	GRAND PORTAGE	900	.11	2,175	.26	3,075	.18
	* TOTAL FOR ALL PORTS	841,551	50.00	841,551	50.00	1,683,102	100.00

NOTE: PERCENT COLUMN TOTALS MAY NOT EQUAL 100 PERCENT BECAUSE OF STATISTICAL ROUNDING

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REPORT YEAR 1982
U.S. GREAT LAKES WATERBORNE COMMERCE
PORT TONNAGE SHIPPED/RECEIVED BY NON-SELF PROPELLED TANK BARGE
(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
1	CHICAGO	196,286	11.42	1,004,156	58.43	1,200,442	34.92
2	EAST CHICAGO	944,132	54.93	115,030	6.69	1,059,162	30.81
3	MUSKEGON	262,958	15.30	43,120	2.51	306,078	8.90
4	DETROIT	89,329	5.20	72,018	4.19	161,347	4.69
5	ESCANABA	3,025	.18	97,007	5.64	100,032	2.91
6	PORT HURON	80,049	4.66	17,051	.99	97,100	2.82
7	TRAVERSE CITY	857	.05	89,199	5.19	90,056	2.62
8	OSWEGO	0	.00	63,351	3.69	63,351	1.84
9	TOLEDO	58,616	3.41	0	.00	58,616	1.71
10	BUFFALO	8,067	.47	36,346	2.11	44,413	1.29
11	ALPENA	0	.00	41,074	2.39	41,074	1.19
12	MILWAUKEE	2,514	.15	38,321	2.23	40,835	1.19
13	BENTON HARBOR	34,142	1.99	0	.00	34,142	.99
14	BURNS HARBOR	32,170	1.87	0	.00	32,170	.94
15	CLEVELAND	2,842	.17	25,169	1.46	28,011	.81
16	SHEBOYGAN	0	.00	15,626	.91	15,626	.45
17	MACKINAC ISLAND	0	.00	14,696	.86	14,696	.43
18	SAULT STE. MARIE	3,557	.21	8,710	.51	12,267	.36
19	CHEBOYGAN	0	.00	10,557	.61	10,557	.31
20	SAGINAW-BAY CITY	0	.00	10,328	.60	10,328	.30
21	MARQUETTE	155	.01	8,536	.50	8,691	.25
22	DULUTH	0	.00	5,735	.33	5,735	.17
23	MANITOWOC	0	.00	2,514	.15	2,514	.07
24	GRAND PORTAGE	0	.00	155	.01	155	.00
	* TOTAL FOR ALL PORTS	1,718,699	50.00	1,718,699	50.00	3,437,398	100.00

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REPORT YEAR 1982
U.S. GREAT LAKES WATERBORNE COMMERCE
PORT TONNAGE SHIPPED/RECEIVED BY ALL TYPE VESSELS
(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
1	SUPERIOR	12,605,235	3.27	561,816	.15	13,167,051	1.71
2	TOLEDO	6,835,356	1.77	5,330,958	1.38	12,166,314	1.58
3	DULUTH	11,283,288	2.92	797,191	.21	12,080,479	1.57
4	EAST CHICAGO	1,595,166	.41	9,788,198	2.54	11,383,364	1.47
5	DETROIT	347,748	.09	10,904,794	2.83	11,252,542	1.46
6	ESCANABA	8,042,521	2.08	673,811	.17	8,716,332	1.13
7	CLEVELAND	390,663	.10	6,683,184	1.73	7,073,847	.92
8	SILVER BAY	6,150,561	1.59	199,983	.05	6,350,544	.82
9	CHICAGO	2,815,718	.73	3,152,815	.82	5,968,533	.77
10	AI PENA	4,705,422	1.22	597,902	.15	5,303,324	.69
11	LORAIN	1,677,934	.43	3,613,811	.94	5,291,745	.69
12	GARY	37,114	.01	4,855,309	1.26	4,892,423	.63
13	ROGERS CITY	3,930,577	1.02	372,363	.10	4,302,940	.56
14	PORT HURON	103,162	.03	3,617,785	.94	3,720,947	.48
15	BURNS HARBOR	76,550	.02	3,415,595	.89	3,492,145	.45
16	BUFFALO	642,846	.17	2,759,906	.72	3,402,752	.44
17	MUSKEGON	716,419	.19	2,046,568	.53	2,762,987	.36
18	SANDUSKY	2,594,044	.67	54,261	.01	2,648,305	.34
19	MILWAUKEE	635,439	.16	1,809,766	.47	2,445,205	.32
20	MARQUETTE	895,407	.23	1,463,177	.38	2,358,584	.31
21	ASHTABULA	807,667	.21	1,438,488	.37	2,246,155	.29
22	GREEN BAY	13,130	.00	1,764,734	.46	1,777,864	.23
23	CONNEAUT	1,360,551	.35	413,869	.11	1,774,420	.23
24	SAULT STE. MARIE	1,357,070	.35	70,173	.02	1,427,243	.18
25	SAGINAW-BAY CITY	333,800	.09	851,903	.22	1,185,703	.15
26	FAIRPORT	245,042	.06	860,161	.22	1,105,203	.14
27	HURON	15,213	.00	1,077,682	.28	1,092,895	.14
28	TRAVERSE CITY	541,997	.14	550,086	.14	1,092,083	.14
29	MANITOWOC	381,559	.10	476,987	.12	858,546	.11
30	DE TOUR VILLAGE	676,924	.18	3,151	.00	680,075	.09
31	ERIE	14,428	.00	407,468	.11	421,896	.05
32	FERRYSBURG	180,683	.05	127,256	.03	307,939	.04
33	BENTON HARBOR	34,142	.01	236,112	.06	270,254	.04
34	ASHLAND	6,860	.00	188,233	.05	195,093	.03
35	HOLLAND	0	.00	162,490	.04	162,490	.02
36	SHEBOYGAN	0	.00	131,170	.03	131,170	.02
37	MACKINAC ISLAND	9,595	.00	118,065	.03	127,660	.02
38	MARINETTE	0	.00	118,545	.03	118,545	.02
39	WAUKEGAN	0	.00	113,997	.03	113,997	.01
40	OSWEGO	0	.00	104,124	.03	104,124	.01
41	GRAND HAVEN	0	.00	86,732	.02	86,732	.01
42	CHEBOYGAN	448	.00	74,788	.02	75,236	.01
43	PRESQUE ISLE	17,000	.00	0	.00	17,000	.00

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REPORT YEAR 1982
U.S. GREAT LAKES WATERBORNE COMMERCE
PORT TONNAGE SHIPPED/RECEIVED BY ALL TYPE VESSELS
(SHORT TONS)

RANKING	PORT	TONNAGE SHIPPED	PERCENT SHIPPED	TONNAGE RECEIVED	PERCENT RECEIVED	TOTAL PORT TONNAGE	TOTAL PORT PERCENT
44	STURGEON BAY	6,095	.00	6,095	.00	12,190	.00
45	GRAND PORTAGE	1,612	.00	3,484	.00	5,096	.00
	* TOTAL FOR ALL PORTS	72,084,986	50.00	72,084,986	50.00	144,169,972	100.00

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NOTE: PERCENT COLUMN TOTALS MAY NOT EQUAL 100 PERCENT BECAUSE OF STATISTICAL ROUNDING

PART FOUR

INLAND WATERWAYS TRADE

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COMMERCIALLY NAVIGABLE WATERWAYS OF THE UNITED STATES BY LENGTHS AND DEPTHS[1]

Group	Lengths in Miles of Waterways					
	Under 6 ft.	6 to 9 ft.	9 to 12 ft.	12 to 14 ft.	14 ft. & Over	Total
Atlantic Coast Waterways	1,426	1,241	584	938	1,581	5,770
Atlantic Intracoastal Waterway-Norfolk, VA, to Key West, FL	—	65	65	1,104	—	1,234
Gulf Coast Waterways	2,055	647	1,133	79	378	4,292
Gulf Intracoastal Waterway-St. Marks, FL, to the Mexican Bordern	—	—	—	1,137	—	1,137
Mississippi River System	2,020	969	4,957	740	268	8,954
Pacific Coast Waterways	730	498	237	26	2,084	3,575
Great Lakes	45	89	—	8	348	490
All Other Waterways	76	7	—	1	7	91
GRAND TOTAL	6,352	3,516	6,976	4,033	4,666	25,543

[1] The mileages in this table represent the lengths of all navigable channels of the United States, including those improved by the federal government, other agencies, and those which have not been improved but are usable for commercial navigation.

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U.S. INLAND WATERWAYS COMMERCE BY SHIPPING AREA AND TYPE OF VESSEL FOR 1978 *

SHORT TONS

	TOTAL TONS	NORTH EASTERN	ATLANTIC I.W.	GULF I.W.	LOWER MISS.	UPPER MISS.	OHIO & TRIB.	CALIFORNIA	PACIFIC N.W.	GREAT LAKES
DRY	8,880,960	424,285	1,503,457	5,670,019	145,303	3,201	0	810,595	96,095	228,005
TANK	14,070,433	9,262,465	747,385	418,585	119,356	0	3,591	3,110,516	408,535	0
TOTAL SELF-PROP.	22,951,393	9,686,750	2,250,842	6,088,604	264,659	3,201	3,591	3,921,111	504,630	228,005
DRY	324,850,635	9,175,344	11,767,534	41,338,588	40,239,998	62,893,280	117,881,009	760,867	37,836,342	2,957,673
TANK	267,539,305	56,921,329	43,305,563	76,431,240	52,903,344	10,498,996	12,558,057	4,063,771	9,177,311	1,679,694
TOTAL NON-SELF-PROP.	592,389,940	66,096,673	55,073,097	117,769,828	93,143,342	73,392,276	130,439,066	4,824,638	47,013,653	4,637,367
TOTAL SHIPPING	615,341,333	75,783,423	57,323,939	123,858,432	93,408,001	73,395,477	130,442,657	8,745,749	47,518,283	4,865,372

* INCLUDES GOVERNMENT MATERIALS TRANSPORTED FOR WATERWAYS IMPROVEMENTS. DOES NOT INCLUDE CARGO CARRIED BY TOWBOATS NOR CARGO CARRIED IN NONCONTIGUOUS AREAS.

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U.S. INLAND WATERWAYS COMMERCE BY RECEIVING AREA AND TYPE OF VESSEL FOR 1978 *

SHORT TONS

	TOTAL TONS	NORTH EASTERN	ATLANTIC I.W.	GULF I.W.	LOWER MISS.	UPPER MISS.	OHIO & TRIB.	CALIFORNIA	PACIFIC N.W.	GREAT LAKES
DRY	8,880,960	416,505	1,740,744	5,651,764	147,590	2,843	11,966	810,595	96,095	2,858
TANK	14,070,433	9,283,697	726,153	416,249	121,692	0	3,591	3,110,516	408,535	0
TOTAL SELF-PROP.	22,951,393	9,700,202	2,466,897	6,068,013	269,282	2,843	15,557	3,921,111	504,630	2,858
DRY	324,850,635	9,905,676	12,399,089	36,680,457	95,305,978	24,807,911	99,539,974	760,867	37,836,342	7,614,341
TANK	267,539,305	57,541,287	43,671,483	59,182,384	53,890,216	12,532,231	23,909,550	4,063,771	9,177,311	3,571,072
TOTAL NON-SELF-PROP.	592,389,940	67,446,963	56,070,572	95,862,841	149,196,194	37,340,142	123,449,524	4,824,638	47,013,653	11,185,413
TOTAL RECEIVING	615,341,333	77,147,165	58,537,469	101,930,854	149,465,476	37,342,985	123,465,081	8,745,749	47,518,283	11,188,271

* INCLUDES GOVERNMENT MATERIALS TRANSPORTED FOR WATERWAYS IMPROVEMENTS. DOES NOT INCLUDE CARGO CARRIED BY TOWBOATS NOR CARGO CARRIED IN NONCONTIGUOUS AREAS.

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U.S. INLAND WATERWAYS COMMERCE BETWEEN AREAS IN TANK VESSELS FOR 1978 *

SHORT TONS

SHIPPING	TOTAL TONS	RECEIVING: NORTH EASTERN	ATLANTIC I.W.	GULF I.W.	LOWER MISS.	UPPER MISS.	OHIO & TRIB.	CALIFORNIA	PACIFIC N.W.	GREAT LAKES
N. EASTERN	66,183,794	61,594,262	4,510,058	0	0	0	0	0	0	79,474
ATL. I.W.	44,052,948	5,218,093	38,834,855	0	0	0	0	0	0	0
GULF I.W.	76,849,825	0	964,753	48,431,051	20,975,859	1,170,034	3,775,561	0	0	1,532,567
LOWER MISS.	53,022,700	0	87,970	10,596,824	29,646,721	3,575,279	7,817,530	0	0	1,298,376
UPPER MISS.	10,498,996	0	0	150,843	2,144,058	6,070,561	1,576,698	0	0	556,836
OHIO & TRIB.	12,561,648	0	0	318,477	997,658	538,311	10,603,383	0	0	103,819
CALIFORNIA	7,174,287	0	0	0	0	0	0	7,174,287	0	0
PACIFIC N.W.	9,585,846	0	0	0	0	0	0	0	9,585,846	0
GREAT LAKES	1,679,694	12,629	0	101,438	247,612	1,178,046	139,969	0	0	0
TOTAL TANK VESSELS	281,609,738	66,824,984	44,397,636	59,598,633	54,011,908	12,532,231	23,913,141	7,174,287	9,585,846	3,571,072

U.S. INLAND WATERWAYS COMMERCE BETWEEN AREAS IN DRY VESSELS FOR 1978 *

SHORT TONS

SHIPPING	TOTAL TONS	RECEIVING: NORTH EASTERN	ATLANTIC I.W.	GULF I.W.	LOWER MISS.	UPPER MISS.	OHIO & TRIB.	CALIFORNIA	PACIFIC N.W.	GREAT LAKES
N. EASTERN	9,599,629	9,552,489	44,858	0	0	0	0	0	0	2,282
ATL. I.W.	13,270,991	769,692	12,477,454	18,174	5,141	530	0	0	0	0
GULF I.W.	47,008,607	0	354,772	36,970,296	4,242,866	2,284,762	2,326,955	0	0	828,956
LOWER MISS.	40,385,301	0	280,102	2,033,636	26,665,208	4,342,537	5,246,340	0	0	1,817,478
UPPER MISS.	62,896,481	0	0	1,188,831	41,609,421	14,515,748	837,177	0	0	4,745,304
OHIO & TRIB.	117,881,009	0	754,642	1,809,424	21,645,434	2,408,426	91,039,904	0	0	223,179
CALIFORNIA	1,571,462	0	0	0	0	0	0	1,571,462	0	0
PACIFIC N.W.	37,932,437	0	0	0	0	0	0	0	37,932,437	0
GREAT LAKES	3,185,678	0	228,005	311,860	1,285,498	1,258,751	101,564	0	0	0
TOTAL DRY VESSELS	333,731,595	10,322,181	14,139,833	42,332,221	95,453,568	24,810,754	99,551,940	1,571,462	37,932,437	7,617,199

* INCLUDES GOVERNMENT MATERIALS TRANSPORTED FOR WATERWAYS IMPROVEMENTS. DOES NOT INCLUDE CARGO CARRIED BY TOWBOATS NOR CARGO CARRIED IN NONCONTIGUOUS AREAS.

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1978

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
NORTH EASTERN						
NORTH EASTERN						
FARM PRODUCTS	144,497	144,497	0	144,497	144,497	0
MARINE PRODUCTS	296,949	296,949	0	296,949	296,949	0
COAL	608,188	608,188	0	608,188	608,188	0
CRUDE PETROLEUM	3,616,270	0	3,616,270	3,616,270	0	3,616,270
NON-METALLIC MIN. EX. FUELS	4,088,465	3,938,272	150,193	4,088,465	3,938,272	150,193
CHEMICALS & ALLIED PRODUCTS	332,223	15,396	316,827	332,223	15,396	316,827
PETROLEUM & COAL PRODUCTS	50,957,235	26,001	50,931,234	50,957,235	26,001	50,931,234
OTHER	11,102,924	4,523,186	6,579,738	11,102,924	4,523,186	6,579,738
TOTAL	71,146,751	9,552,489	61,594,262	71,146,751	9,552,489	61,594,262
NORTH EASTERN						
ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	11,700	11,700	0	3,632	3,632	0
COAL	0	0	0	752,576	752,576	0
CRUDE PETROLEUM	79,512	0	79,512	2,192,198	0	2,192,198
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	167,269	0	167,269	202,215	0	202,215
PETROLEUM & COAL PRODUCTS	4,270,242	6,965	4,263,277	2,461,505	542	2,460,963
OTHER	26,193	26,193	0	375,659	12,942	362,717
TOTAL	4,554,916	44,858	4,510,058	5,987,785	769,692	5,218,093
NORTH EASTERN						
GREAT LAKES						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	12,629	0	12,629
PETROLEUM & COAL PRODUCTS	81,756	2,282	79,474	0	0	0
OTHER	0	0	0	0	0	0
TOTAL	81,756	2,282	79,474	12,629	0	12,629

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1978

(SHORT TONS)

TOTAL FOR NORTH EASTERN	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	144,497	144,497	0	144,497	144,497	0
MARINE PRODUCTS	308,649	308,649	0	300,581	300,581	0
COAL	608,188	608,188	0	1,360,764	1,360,764	0
CRUDE PETROLEUM	3,695,782	0	3,695,782	5,808,468	0	5,808,468
NON-METALLIC MIN. EX. FUELS	4,088,465	3,938,272	150,193	4,088,465	3,938,272	150,193
CHEMICALS & ALLIED PRODUCTS	499,492	15,396	484,096	547,067	15,396	531,671
PETROLEUM & COAL PRODUCTS	55,309,233	35,248	55,273,985	53,418,740	26,543	53,392,197
OTHER	11,129,117	4,549,379	6,579,738	11,478,583	4,536,128	6,942,455
TOTAL	75,783,423	9,599,629	66,183,794	77,147,165	10,322,181	66,824,984

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1978

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
ATLANTIC INLAND WATERWAYS NORTH EASTERN						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	3,632	3,632	0	11,700	11,700	0
COAL	752,576	752,576	0	0	0	0
CRUDE PETROLEUM	2,192,198	0	2,192,198	79,512	0	79,512
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	202,215	0	202,215	167,269	0	167,269
PETROLEUM & COAL PRODUCTS	2,461,505	542	2,460,963	4,270,242	6,965	4,263,277
OTHER	375,659	12,942	362,717	26,193	26,193	0
TOTAL	5,987,785	769,692	5,218,093	4,554,916	44,858	4,510,058
ATLANTIC INLAND WATERWAYS ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	403,193	403,193	0	403,193	403,193	0
MARINE PRODUCTS	1,236,940	1,236,940	0	1,236,940	1,236,940	0
COAL	2,336,415	2,336,415	0	2,336,415	2,336,415	0
CRUDE PETROLEUM	9,718,560	0	9,718,560	9,718,560	0	9,718,560
NON-METALLIC MIN. EX. FUELS	5,284,701	4,697,951	586,750	5,284,701	4,697,951	586,750
CHEMICALS & ALLIED PRODUCTS	2,139,155	896,348	1,242,807	2,139,155	896,348	1,242,807
PETROLEUM & COAL PRODUCTS	26,926,540	51,124	26,875,416	26,926,540	51,124	26,875,416
OTHER	3,266,805	2,855,483	411,322	3,266,805	2,855,483	411,322
TOTAL	51,312,309	12,477,454	38,834,855	51,312,309	12,477,454	38,834,855
ATLANTIC INLAND WATERWAYS GULF INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	353	353	0	1,056	1,056	0
COAL	0	0	0	346,534	346,534	0
CRUDE PETROLEUM	0	0	0	5,117	0	5,117
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	202,145	2,613	199,532
PETROLEUM & COAL PRODUCTS	0	0	0	760,104	0	760,104
OTHER	17,821	17,821	0	4,569	4,569	0
TOTAL	18,174	18,174	0	1,319,525	354,772	964,753

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1978

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
ATLANTIC INLAND WATERWAYS LOWER MISSISSIPPI						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	277,547	277,547	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	71,900	0	71,900
PETROLEUM & COAL PRODUCTS	974	974	0	18,625	2,555	16,070
OTHER	4,167	4,167	0	0	0	0
TOTAL	5,141	5,141	0	368,072	280,102	87,970
ATLANTIC INLAND WATERWAYS UPPER MISSISSIPPI						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	530	530	0	0	0	0
TOTAL	530	530	0	0	0	0
ATLANTIC INLAND WATERWAYS OHIO & TRIBUTARIES						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	754,642	754,642	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	0	0	0	0	0	0
TOTAL	0	0	0	754,642	754,642	0

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1978

(SHORT TONS)

ATLANTIC INLAND WATERWAYS GREAT LAKES	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	152	152	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	227,853	227,853	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	0	0	0	0	0	0
TOTAL	0	0	0	228,005	228,005	0

TOTAL FOR ATLANTIC INLAND WATERWAYS	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	403,193	403,193	0	403,193	403,193	0
MARINE PRODUCTS	1,240,925	1,240,925	0	1,249,848	1,249,848	0
COAL	3,088,991	3,088,991	0	3,715,138	3,715,138	0
CRUDE PETROLEUM	11,910,758	0	11,910,758	9,803,189	0	9,803,189
NON-METALLIC MIN. EX. FUELS	5,284,701	4,697,951	586,750	5,512,554	4,925,804	586,750
CHEMICALS & ALLIED PRODUCTS	2,341,370	896,348	1,445,022	2,580,469	898,961	1,681,508
PETROLEUM & COAL PRODUCTS	29,389,019	52,640	29,336,379	31,975,511	60,644	31,914,867
OTHER	3,664,982	2,890,943	774,039	3,297,567	2,886,245	411,322
TOTAL	57,323,939	13,270,991	44,052,948	58,537,469	14,139,833	44,397,636

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1978

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
GULF INLAND WATERWAYS						
ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	1,056	1,056	0	353	353	0
COAL	346,534	346,534	0	0	0	0
CRUDE PETROLEUM	5,117	0	5,117	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	202,145	2,613	199,532	0	0	0
PETROLEUM & COAL PRODUCTS	760,104	0	760,104	0	0	0
OTHER	4,569	4,569	0	17,821	17,821	0
TOTAL	1,319,525	354,772	964,753	18,174	18,174	0
GULF INLAND WATERWAYS						
GULF INLAND WATERWAYS						
FARM PRODUCTS	610,915	610,915	0	610,915	610,915	0
MARINE PRODUCTS	10,061,596	9,999,883	61,713	10,061,596	9,999,883	61,713
COAL	7,125,911	7,125,911	0	7,125,911	7,125,911	0
CRUDE PETROLEUM	16,949,931	4,379	16,945,552	16,949,931	4,379	16,945,552
NON-METALLIC MIN. EX. FUELS	8,359,211	6,992,570	1,366,641	8,359,211	6,992,570	1,366,641
CHEMICALS & ALLIED PRODUCTS	8,465,052	753,421	7,711,631	8,465,052	753,421	7,711,631
PETROLEUM & COAL PRODUCTS	22,071,433	741,890	21,329,543	22,071,433	741,890	21,329,543
OTHER	11,757,298	10,741,327	1,015,971	11,757,298	10,741,327	1,015,971
TOTAL	85,401,347	36,970,296	48,431,051	85,401,347	36,970,296	48,431,051
GULF INLAND WATERWAYS						
LOWER MISSISSIPPI						
FARM PRODUCTS	672,112	672,112	0	190,418	190,418	0
MARINE PRODUCTS	569,961	517,961	52,000	1,741	1,741	0
COAL	84,447	84,447	0	414,110	414,110	0
CRUDE PETROLEUM	7,399,867	17,872	7,381,995	4,176,367	0	4,176,367
NON-METALLIC MIN. EX. FUELS	2,167,965	1,139,009	1,028,956	577,162	456,526	120,636
CHEMICALS & ALLIED PRODUCTS	3,314,753	598,511	2,716,242	2,082,878	188,907	1,893,971
PETROLEUM & COAL PRODUCTS	9,957,125	255,339	9,701,786	4,467,540	145,840	4,321,700
OTHER	1,052,495	957,615	94,880	720,244	636,094	84,150
TOTAL	25,218,725	4,242,866	20,975,859	12,630,460	2,033,636	10,596,824

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1978

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
GULF INLAND WATERWAYS UPPER MISSISSIPPI						
FARM PRODUCTS	3,164	3,164	0	548,735	548,735	0
MARINE PRODUCTS	15,636	15,636	0	0	0	0
COAL	12,490	12,490	0	209,602	209,602	0
CRUDE PETROLEUM	25,005	0	25,005	0	0	0
NON-METALLIC MIN. EX. FUELS	1,870,275	1,867,496	2,779	149,259	149,259	0
CHEMICALS & ALLIED PRODUCTS	736,893	194,096	542,797	47,196	1,548	45,648
PETROLEUM & COAL PRODUCTS	614,818	31,654	583,164	98,004	12,488	85,516
OTHER	176,515	160,226	16,289	286,878	267,199	19,679
TOTAL	3,454,796	2,284,762	1,170,034	1,339,674	1,188,831	150,843
GULF INLAND WATERWAYS OHIO & TRIBUTARIES						
FARM PRODUCTS	1,919	1,919	0	70,893	70,893	0
MARINE PRODUCTS	5,818	5,818	0	0	0	0
COAL	4,239	4,239	0	1,044,618	1,044,618	0
CRUDE PETROLEUM	50,282	0	50,282	0	0	0
NON-METALLIC MIN. EX. FUELS	1,642,582	1,595,355	47,227	17,444	17,444	0
CHEMICALS & ALLIED PRODUCTS	2,209,608	463,678	1,745,930	190,523	4,232	186,291
PETROLEUM & COAL PRODUCTS	1,963,159	34,537	1,928,622	143,048	15,304	127,744
OTHER	224,909	221,409	3,500	661,375	656,933	4,442
TOTAL	6,102,516	2,326,955	3,775,561	2,127,901	1,809,424	318,477
GULF INLAND WATERWAYS GREAT LAKES						
FARM PRODUCTS	0	0	0	6,039	6,039	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	9,948	9,948	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	640,570	640,570	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	869,243	44,171	825,072	43,494	1,125	42,369
PETROLEUM & COAL PRODUCTS	743,179	38,851	704,328	56,686	33,681	23,005
OTHER	98,583	95,416	3,167	307,079	271,015	36,064
TOTAL	2,361,523	828,956	1,532,567	413,298	311,860	101,438

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1978

(SHORT TONS)

TOTAL FOR GULF INLAND WATERWAYS	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	1,288,110	1,288,110	0	1,427,000	1,427,000	0
MARINE PRODUCTS	10,654,067	10,540,354	113,713	10,063,690	10,001,977	61,713
COAL	7,583,569	7,583,569	0	8,794,241	8,794,241	0
CRUDE PETROLEUM	24,430,202	22,251	24,407,951	21,126,298	4,379	21,121,919
NON-METALLIC MIN. EX. FUELS	14,680,603	12,235,000	2,445,603	9,103,076	7,615,799	1,487,277
CHEMICALS & ALLIED PRODUCTS	15,797,694	2,056,490	13,741,204	10,829,143	949,233	9,879,910
PETROLEUM & COAL PRODUCTS	36,109,818	1,102,271	35,007,547	26,836,711	949,203	25,887,508
OTHER	13,314,369	12,180,562	1,133,807	13,750,695	12,590,389	1,160,306
TOTAL	123,858,432	47,008,607	76,849,825	101,930,854	42,332,221	59,598,633

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1978

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
LOWER MISSISSIPPI						
ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	277,547	277,547	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	71,900	0	71,900	0	0	0
PETROLEUM & COAL PRODUCTS	18,625	2,555	16,070	974	974	0
OTHER	0	0	0	4,167	4,167	0
TOTAL	368,072	280,102	87,970	5,141	5,141	0
LOWER MISSISSIPPI						
GULF INLAND WATERWAYS						
FARM PRODUCTS	190,418	190,418	0	672,112	672,112	0
MARINE PRODUCTS	1,741	1,741	0	569,961	517,961	52,000
COAL	414,110	414,110	0	84,447	84,447	0
CRUDE PETROLEUM	4,176,367	0	4,176,367	7,399,867	17,872	7,381,995
NON-METALLIC MIN. EX. FUELS	577,162	456,526	120,636	2,167,965	1,139,009	1,028,956
CHEMICALS & ALLIED PRODUCTS	2,082,878	188,907	1,893,971	3,314,753	598,511	2,716,242
PETROLEUM & COAL PRODUCTS	4,467,540	145,840	4,321,700	9,957,125	255,339	9,701,786
OTHER	720,244	636,094	84,150	1,052,495	957,615	94,880
TOTAL	12,630,460	2,033,636	10,596,824	25,218,725	4,242,866	20,975,859
LOWER MISSISSIPPI						
LOWER MISSISSIPPI						
FARM PRODUCTS	5,078,242	5,069,425	8,817	5,078,242	5,069,425	8,817
MARINE PRODUCTS	475	475	0	475	475	0
COAL	4,273,567	4,264,175	9,392	4,273,567	4,264,175	9,392
CRUDE PETROLEUM	7,158,058	0	7,158,058	7,158,058	0	7,158,058
NON-METALLIC MIN. EX. FUELS	10,898,062	9,943,839	954,223	10,898,062	9,943,839	954,223
CHEMICALS & ALLIED PRODUCTS	4,347,879	1,145,828	3,202,051	4,347,879	1,145,828	3,202,051
PETROLEUM & COAL PRODUCTS	18,358,697	473,064	17,885,633	18,358,697	473,064	17,885,633
OTHER	6,196,949	5,768,402	428,547	6,196,949	5,768,402	428,547
TOTAL	56,311,929	26,665,208	29,646,721	56,311,929	26,665,208	29,646,721

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1978

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
LOWER MISSISSIPPI UPPER MISSISSIPPI						
FARM PRODUCTS	37,020	37,020	0	33,173,485	33,140,133	33,352
MARINE PRODUCTS	0	0	0	0	0	0
COAL	483,209	481,803	1,406	2,580,899	2,580,899	0
CRUDE PETROLEUM	647,980	0	647,980	37,931	0	37,931
NON-METALLIC MIN. EX. FUELS	773,295	773,295	0	356,588	279,278	77,310
CHEMICALS & ALLIED PRODUCTS	3,279,372	1,783,679	1,495,693	195,583	80,555	115,028
PETROLEUM & COAL PRODUCTS	1,651,184	485,424	1,165,760	1,519,337	170,186	1,349,151
OTHER	1,045,756	781,316	264,440	5,889,656	5,358,370	531,286
TOTAL	7,917,816	4,342,537	3,575,279	43,753,479	41,609,421	2,144,058
LOWER MISSISSIPPI OHIO & TRIBUTARIES						
FARM PRODUCTS	11,153	11,153	0	4,076,160	4,072,214	3,946
MARINE PRODUCTS	0	0	0	0	0	0
COAL	424,779	424,779	0	13,559,603	13,552,141	7,462
CRUDE PETROLEUM	412,739	11,966	400,773	34,497	0	34,497
NON-METALLIC MIN. EX. FUELS	582,726	482,153	100,573	1,741,390	1,739,972	1,418
CHEMICALS & ALLIED PRODUCTS	3,352,966	1,603,408	1,749,558	206,947	35,858	171,089
PETROLEUM & COAL PRODUCTS	5,704,118	190,140	5,513,978	730,390	40,612	689,778
OTHER	2,575,389	2,522,741	52,648	2,294,105	2,204,637	89,468
TOTAL	13,063,870	5,246,340	7,817,530	22,643,092	21,645,434	997,658
LOWER MISSISSIPPI GREAT LAKES						
FARM PRODUCTS	0	0	0	438,482	438,482	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	11,234	11,234	0	6,755	6,755	0
CRUDE PETROLEUM	26,657	0	26,657	0	0	0
NON-METALLIC MIN. EX. FUELS	81,481	80,022	1,459	0	0	0
CHEMICALS & ALLIED PRODUCTS	824,252	42,217	782,035	71,208	2,944	68,264
PETROLEUM & COAL PRODUCTS	932,804	463,943	468,861	151,459	36,885	114,574
OTHER	1,239,426	1,220,062	19,364	865,206	800,432	64,774
TOTAL	3,115,854	1,817,478	1,298,376	1,533,110	1,285,498	247,612

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1978

(SHORT TONS)

TOTAL FOR LOWER MISSISSIPPI	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	5,316,833	5,308,016	8,817	43,438,481	43,392,366	46,115
MARINE PRODUCTS	2,216	2,216	0	570,436	518,436	52,000
COAL	5,884,446	5,873,648	10,798	20,505,271	20,488,417	16,854
CRUDE PETROLEUM	12,421,801	11,966	12,409,835	14,630,353	17,872	14,612,481
NON-METALLIC MIN. EX. FUELS	12,912,726	11,735,835	1,176,891	15,164,005	13,102,098	2,061,907
CHEMICALS & ALLIED PRODUCTS	13,959,247	4,764,039	9,195,208	8,136,370	1,863,696	6,272,674
PETROLEUM & COAL PRODUCTS	31,132,968	1,760,966	29,372,002	30,717,982	977,060	29,740,922
OTHER	11,777,764	10,928,615	849,149	16,302,578	15,093,623	1,208,955
TOTAL	93,408,001	40,385,301	53,022,700	149,465,476	95,453,568	54,011,908

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1978

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
UPPER MISSISSIPPI ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	530	530	0
OTHER	0	0	0	530	530	0
TOTAL						
UPPER MISSISSIPPI GULF INLAND WATERWAYS						
FARM PRODUCTS	548,735	548,735	0	3,164	3,164	0
MARINE PRODUCTS	0	0	0	15,636	15,636	0
COAL	209,602	209,602	0	12,490	12,490	0
CRUDE PETROLEUM	0	0	0	25,005	0	25,005
NON-METALLIC MIN. EX. FUELS	149,259	149,259	0	1,870,275	1,867,496	2,779
CHEMICALS & ALLIED PRODUCTS	47,196	1,548	45,648	736,893	194,096	542,797
PETROLEUM & COAL PRODUCTS	98,004	12,488	85,516	614,818	31,654	583,164
OTHER	286,808	267,199	19,679	176,515	160,226	16,289
TOTAL	1,339,674	1,188,831	150,843	3,454,796	2,284,762	1,170,034
UPPER MISSISSIPPI LOWER MISSISSIPPI						
FARM PRODUCTS	33,173,485	33,140,133	33,352	37,020	37,020	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	2,580,899	2,580,899	0	483,209	481,803	1,406
CRUDE PETROLEUM	37,931	0	37,931	647,980	0	647,980
NON-METALLIC MIN. EX. FUELS	356,588	279,278	77,310	773,295	773,295	0
CHEMICALS & ALLIED PRODUCTS	195,383	80,555	115,028	3,279,372	1,783,679	1,495,693
PETROLEUM & COAL PRODUCTS	1,519,337	170,186	1,349,151	1,651,184	485,424	1,165,760
OTHER	5,889,656	5,358,370	531,286	1,045,756	781,316	264,440
TOTAL	43,753,479	41,609,421	2,144,058	7,917,816	4,342,537	3,575,279

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1978

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
UPPER MISSISSIPPI						
UPPER MISSISSIPPI						
FARM PRODUCTS	348,686	348,686	0	348,686	348,686	0
MARINE PRODUCTS	343	343	0	343	343	0
COAL	5,799,151	5,796,122	3,029	5,799,151	5,796,122	3,029
CRUDE PETROLEUM	76,632	0	76,632	76,632	0	76,632
NON-METALLIC MIN. EX. FUELS	7,158,696	7,158,696	0	7,158,696	7,158,696	0
CHEMICALS & ALLIED PRODUCTS	564,457	20,142	544,315	564,457	20,142	544,315
PETROLEUM & COAL PRODUCTS	5,661,097	238,851	5,422,246	5,661,097	238,851	5,422,246
OTHER	977,247	952,908	24,339	977,247	952,908	24,339
TOTAL	20,586,309	14,515,748	6,070,561	20,586,309	14,515,748	6,070,561
UPPER MISSISSIPPI						
OHIO & TRIBUTARIES						
FARM PRODUCTS	212,264	212,264	0	2,971	2,971	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	8,593	8,593	0	2,099,220	2,099,220	0
CRUDE PETROLEUM	15,014	0	15,014	0	0	0
NON-METALLIC MIN. EX. FUELS	17,453	17,453	0	13,680	13,680	0
CHEMICALS & ALLIED PRODUCTS	121,086	47,063	74,023	121,543	3,366	118,177
PETROLEUM & COAL PRODUCTS	1,532,054	74,107	1,457,947	432,003	13,813	418,190
OTHER	507,411	477,697	29,714	277,320	275,376	1,944
TOTAL	2,413,875	837,177	1,576,698	2,946,737	2,408,426	538,311
UPPER MISSISSIPPI						
GREAT LAKES						
FARM PRODUCTS	26,227	26,227	0	4,495	4,495	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	2,821,249	2,821,249	0	2,807	2,807	0
CRUDE PETROLEUM	0	0	0	9,652	0	9,652
NON-METALLIC MIN. EX. FUELS	1,176,912	1,176,912	0	821,325	821,325	0
CHEMICALS & ALLIED PRODUCTS	183,685	2,850	180,835	63,833	2,837	60,996
PETROLEUM & COAL PRODUCTS	613,830	248,361	365,469	130,673	1,412	129,261
OTHER	480,237	469,705	10,532	1,404,012	425,875	978,137
TOTAL	5,302,140	4,745,304	556,836	2,436,797	1,258,751	1,178,046

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1978

(SHORT TONS)

TOTAL FOR UPPER MISSISSIPPI	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	34,309,397	34,276,045	33,352	396,336	396,336	0
MARINE PRODUCTS	343	343	0	15,979	15,979	0
COAL	11,419,494	11,416,465	3,029	8,396,877	8,392,442	4,435
CRUDE PETROLEUM	129,577	0	129,577	759,269	0	759,269
NON-METALLIC MIN. EX. FUELS	8,858,908	8,781,598	77,310	10,637,271	10,634,492	2,779
CHEMICALS & ALLIED PRODUCTS	1,112,007	152,158	959,849	4,766,098	2,004,120	2,761,978
PETROLEUM & COAL PRODUCTS	9,424,322	743,993	8,680,329	8,489,775	771,154	7,718,621
OTHER	8,141,429	7,525,879	615,550	3,881,380	2,596,231	1,285,149
TOTAL	73,395,477	62,896,481	10,498,996	37,342,985	24,810,754	12,532,231

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1978

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
OHIO & TRIBUTARIES ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	754,642	754,642	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	0	0	0	0	0	0
TOTAL	754,642	754,642	0	0	0	0
OHIO & TRIBUTARIES GULF INLAND WATERWAYS						
FARM PRODUCTS	70,893	70,893	0	1,919	1,919	0
MARINE PRODUCTS	0	0	0	5,818	5,818	0
COAL	1,044,618	1,044,618	0	4,239	4,239	0
CRUDE PETROLEUM	0	0	0	50,282	0	50,282
NON-METALLIC MIN. EX. FUELS	17,444	17,444	0	1,642,582	1,595,355	47,227
CHEMICALS & ALLIED PRODUCTS	190,523	4,232	186,291	2,209,608	463,678	1,745,930
PETROLEUM & COAL PRODUCTS	143,048	15,304	127,744	1,963,159	34,537	1,928,622
OTHER	661,375	656,933	4,442	224,909	221,409	3,500
TOTAL	2,127,901	1,809,424	318,477	6,102,516	2,326,955	3,775,561
OHIO & TRIBUTARIES LOWER MISSISSIPPI						
FARM PRODUCTS	4,076,160	4,072,214	3,946	11,153	11,153	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	13,559,603	13,552,141	7,462	424,779	424,779	0
CRUDE PETROLEUM	34,497	0	34,497	412,739	11,966	400,773
NON-METALLIC MIN. EX. FUELS	1,741,390	1,739,972	1,418	582,726	482,153	100,573
CHEMICALS & ALLIED PRODUCTS	206,947	35,858	171,089	3,352,966	1,603,408	1,749,558
PETROLEUM & COAL PRODUCTS	730,390	40,612	689,778	5,704,118	190,140	5,513,978
OTHER	2,294,105	2,204,637	89,468	2,575,389	2,522,741	52,648
TOTAL	22,643,092	21,645,434	997,658	13,063,870	5,246,340	7,817,530

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1978

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
OHIO & TRIBUTARIES						
UPPER MISSISSIPPI						
FARM PRODUCTS	2,971	2,971	0	212,264	212,264	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	2,099,220	2,099,220	0	8,593	8,593	0
CRUDE PETROLEUM	0	0	0	15,014	0	15,014
NON-METALLIC MIN. EX. FUELS	13,680	13,680	0	17,453	17,453	0
CHEMICALS & ALLIED PRODUCTS	121,543	3,366	118,177	121,086	47,063	74,023
PETROLEUM & COAL PRODUCTS	432,003	13,813	418,190	1,532,054	74,107	1,457,947
OTHER	277,320	275,376	1,944	507,411	477,697	29,714
TOTAL	2,946,737	2,408,426	538,311	2,413,875	837,177	1,576,698
OHIO & TRIBUTARIES						
OHIO & TRIBUTARIES						
FARM PRODUCTS	50,976	50,976	0	50,976	50,976	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	71,067,429	71,056,153	11,276	71,067,429	71,056,153	11,276
CRUDE PETROLEUM	32,668	0	32,668	32,668	0	32,668
NON-METALLIC MIN. EX. FUELS	17,758,453	17,756,915	1,538	17,758,453	17,756,915	1,538
CHEMICALS & ALLIED PRODUCTS	1,369,598	91,200	1,278,398	1,369,598	91,200	1,278,398
PETROLEUM & COAL PRODUCTS	9,278,511	41,537	9,236,974	9,278,511	41,537	9,236,974
OTHER	2,085,652	2,043,123	42,529	2,085,652	2,043,123	42,529
TOTAL	101,643,287	91,039,904	10,603,383	101,643,287	91,039,904	10,603,383
OHIO & TRIBUTARIES						
GREAT LAKES						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	57,610	57,610	0	1,550	1,550	0
CRUDE PETROLEUM	0	0	0	34,316	0	34,316
NON-METALLIC MIN. EX. FUELS	8,362	8,362	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	84,745	2,800	81,945	36,107	1,400	34,707
PETROLEUM & COAL PRODUCTS	21,874	0	21,874	109,275	38,329	70,946
OTHER	154,407	154,407	0	60,285	60,285	0
TOTAL	326,998	223,179	103,819	241,533	101,564	139,969

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1978

(SHORT TONS)

TOTAL FOR OHIO & TRIBUTARIES	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	4,201,000	4,197,054	3,946	276,312	276,312	0
MARINE PRODUCTS	0	0	0	5,818	5,818	0
COAL	88,583,122	88,564,384	18,738	71,506,590	71,495,314	11,276
CRUDE PETROLEUM	67,165	0	67,165	545,019	11,966	533,053
NON-METALLIC MIN. EX. FUELS	19,539,329	19,536,373	2,956	20,001,214	19,851,876	149,338
CHEMICALS & ALLIED PRODUCTS	1,973,356	137,456	1,835,900	7,089,365	2,206,749	4,882,616
PETROLEUM & COAL PRODUCTS	10,605,826	111,266	10,494,560	18,587,117	378,650	18,208,467
OTHER	5,472,859	5,334,476	138,383	5,453,646	5,325,255	128,391
TOTAL	130,442,657	117,881,009	12,561,648	123,465,081	99,551,940	23,913,141

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1978

(SHORT TONS)

	SHIPPING			RECEIVING		
CALIFORNIA	TOTAL	DRY	TANK	TOTAL	DRY	TANK
CALIFORNIA						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	403,919	403,919	0	403,919	403,919	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	2,860,144	0	2,860,144	2,860,144	0	2,860,144
NON-METALLIC MIN. EX. FUELS	675,185	675,185	0	675,185	675,185	0
CHEMICALS & ALLIED PRODUCTS	13,726	2,037	11,689	13,726	2,037	11,689
PETROLEUM & COAL PRODUCTS	4,225,454	0	4,225,454	4,225,454	0	4,225,454
OTHER	567,321	490,321	77,000	567,321	490,321	77,000
TOTAL	8,745,749	1,571,462	7,174,287	8,745,749	1,571,462	7,174,287

	SHIPPING			RECEIVING		
TOTAL FOR CALIFORNIA	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	403,919	403,919	0	403,919	403,919	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	2,860,144	0	2,860,144	2,860,144	0	2,860,144
NON-METALLIC MIN. EX. FUELS	675,185	675,185	0	675,185	675,185	0
CHEMICALS & ALLIED PRODUCTS	13,726	2,037	11,689	13,726	2,037	11,689
PETROLEUM & COAL PRODUCTS	4,225,454	0	4,225,454	4,225,454	0	4,225,454
OTHER	567,321	490,321	77,000	567,321	490,321	77,000
TOTAL	8,745,749	1,571,462	7,174,287	8,745,749	1,571,462	7,174,287

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1978

(SHORT TONS)

PACIFIC NORTHWEST PACIFIC NORTHWEST	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	4,345,486	2,954,474	1,391,012	4,345,486	2,954,474	1,391,012
MARINE PRODUCTS	50,835	50,537	298	50,835	50,537	298
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	1,035,088	205,960	829,128	1,035,088	205,960	829,128
NON-METALLIC MIN. EX. FUELS	11,196,055	11,196,055	0	11,196,055	11,196,055	0
CHEMICALS & ALLIED PRODUCTS	632,618	14,709	617,909	632,618	14,709	617,909
PETROLEUM & COAL PRODUCTS	6,734,169	227,284	6,506,885	6,734,169	227,284	6,506,885
OTHER	23,524,032	23,283,418	240,614	23,524,032	23,283,418	240,614
TOTAL	47,518,283	37,932,437	9,585,846	47,518,283	37,932,437	9,585,846

TOTAL FOR PACIFIC NORTHWEST	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	4,345,486	2,954,474	1,391,012	4,345,486	2,954,474	1,391,012
MARINE PRODUCTS	50,835	50,537	298	50,835	50,537	298
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	1,035,088	205,960	829,128	1,035,088	205,960	829,128
NON-METALLIC MIN. EX. FUELS	11,196,055	11,196,055	0	11,196,055	11,196,055	0
CHEMICALS & ALLIED PRODUCTS	632,618	14,709	617,909	632,618	14,709	617,909
PETROLEUM & COAL PRODUCTS	6,734,169	227,284	6,506,885	6,734,169	227,284	6,506,885
OTHER	23,524,032	23,283,418	240,614	23,524,032	23,283,418	240,614
TOTAL	47,518,283	37,932,437	9,585,846	47,518,283	37,932,437	9,585,846

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1978

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
GREAT LAKES NORTH EASTERN						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	12,629	0	12,629	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	81,756	2,282	79,474
OTHER	0	0	0	0	0	0
TOTAL	12,629	0	12,629	81,756	2,282	79,474
GREAT LAKES ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	152	152	0	0	0	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	227,853	227,853	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	0	0	0	0	0	0
TOTAL	228,005	228,005	0	0	0	0
GREAT LAKES GULF INLAND WATERWAYS						
FARM PRODUCTS	6,039	6,039	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	9,948	9,948	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	640,570	640,570	0
CHEMICALS & ALLIED PRODUCTS	43,494	1,125	42,369	869,243	44,171	825,072
PETROLEUM & COAL PRODUCTS	56,686	33,681	23,005	743,179	38,851	704,328
OTHER	307,079	271,015	36,064	98,583	95,416	3,167
TOTAL	413,298	311,860	101,438	2,361,523	828,956	1,532,567

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1978

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
GREAT LAKES						
LOWER MISSISSIPPI						
FARM PRODUCTS	438,482	438,482	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	6,755	6,755	0	11,234	11,234	0
CRUDE PETROLEUM	0	0	0	26,657	0	26,657
NON-METALLIC MIN. EX. FUELS	0	0	0	81,481	80,022	1,459
CHEMICALS & ALLIED PRODUCTS	71,208	2,944	68,264	824,252	42,217	782,035
PETROLEUM & COAL PRODUCTS	151,459	36,885	114,574	932,804	463,943	468,861
OTHER	865,206	800,432	64,774	1,239,426	1,220,062	19,364
TOTAL	1,533,110	1,285,498	247,612	3,115,854	1,817,478	1,298,376
GREAT LAKES						
UPPER MISSISSIPPI						
FARM PRODUCTS	4,495	4,495	0	26,227	26,227	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	2,807	2,807	0	2,821,249	2,821,249	0
CRUDE PETROLEUM	9,652	0	9,652	0	0	0
NON-METALLIC MIN. EX. FUELS	821,325	821,325	0	1,176,912	1,176,912	0
CHEMICALS & ALLIED PRODUCTS	63,833	2,837	60,996	183,685	2,850	180,835
PETROLEUM & COAL PRODUCTS	130,673	1,412	129,261	613,830	248,361	365,469
OTHER	1,404,012	425,875	978,137	480,237	469,705	10,532
TOTAL	2,436,797	1,258,751	1,178,046	5,302,140	4,745,304	556,836
GREAT LAKES						
OHIO & TRIBUTARIES						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	1,550	1,550	0	57,610	57,610	0
CRUDE PETROLEUM	34,316	0	34,316	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	8,362	8,362	0
CHEMICALS & ALLIED PRODUCTS	36,107	1,400	34,707	84,745	2,800	81,945
PETROLEUM & COAL PRODUCTS	109,275	38,329	70,946	21,874	0	21,874
OTHER	60,285	60,285	0	154,407	154,407	0
TOTAL	241,533	101,564	139,969	326,998	223,179	103,819

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1978

(SHORT TONS)

TOTAL FOR GREAT LAKES	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	449,016	449,016	0	26,227	26,227	0
MARINE PRODUCTS	152	152	0	0	0	0
COAL	11,112	11,112	0	2,900,041	2,900,041	0
CRUDE PETROLEUM	43,968	0	43,968	26,657	0	26,657
NON-METALLIC MIN. EX. FUELS	1,049,178	1,049,178	0	1,907,325	1,905,866	1,459
CHEMICALS & ALLIED PRODUCTS	227,271	8,306	218,965	1,961,925	92,038	1,869,887
PETROLEUM & COAL PRODUCTS	448,093	110,307	337,786	2,393,443	753,437	1,640,006
OTHER	2,636,582	1,557,607	1,078,975	1,972,653	1,939,590	33,063
TOTAL	4,865,372	3,185,678	1,679,694	11,188,271	7,617,199	3,571,072

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U.S. INLAND WATERWAYS COMMERCE BY SHIPPING AREA AND TYPE OF VESSEL FOR 1979 *

SHORT TONS

	TOTAL TONS	NORTH EASTERN	ATLANTIC I.W.	GULF I.W.	LOWER MISS.	UPPER MISS.	OHIO & TRIB.	CALIFORNIA	PACIFIC N.W.	GREAT LAKES
DRY	8.259.913	528.007	1.730.150	4.760.563	112.989	161.734	44.363	447.412	274.100	200.595
TANK	16.487.390	9.797.795	495.544	863.630	300.423	0	1.390	3.722.882	1.305.726	0
TOTAL SELF-PROP.	24.747.303	10.325.802	2.225.694	5.624.193	413.412	161.734	45.753	4.170.294	1.579.826	200.595
DRY	343.966.644	8.285.167	13.176.905	38.838.856	41.980.816	67.070.684	134.212.166	778.756	36.300.942	3.322.352
TANK	253.730.198	51.022.017	43.641.978	74.883.305	48.469.273	8.904.874	15.420.702	396.783	9.491.665	1.499.601
TOTAL NON-SELF-PROP.	597.696.842	59.307.184	56.818.683	113.722.161	90.450.089	75.975.558	149.632.868	1.175.539	45.792.607	4.321.953
TOTAL SHIPPING	622.444.145	69.632.986	59.044.577	119.346.354	90.863.501	76.137.292	149.678.621	5.345.833	47.372.433	5.022.548

* INCLUDES GOVERNMENT MATERIALS TRANSPORTED FOR WATERWAYS IMPROVEMENTS. DOES NOT INCLUDE CARGO CARRIED BY TOWBOATS NOR CARGO CARRIED IN NONCONTIGUOUS AREAS.

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U.S. INLAND WATERWAYS COMMERCE BY RECEIVING AREA AND TYPE OF VESSEL FOR 1979 *

SHORT TONS

	TOTAL TONS	NORTH EASTERN	ATLANTIC I.W.	GULF I.W.	LOWER MISS.	UPPER MISS.	OHIO & TRIB.	CALIFORNIA	PACIFIC N.W.	GREAT LAKES
DRY	8.259.913	516.328	1.946.784	4.673.034	195.143	169.000	36.862	447.412	274.100	1.250
TANK	16.487.390	9.840.683	452.656	863.672	298.799	0	2.972	3.722.882	1.305.726	0
TOTAL SELF-PROP.	24.747.303	10.357.011	2.399.440	5.536.706	493.942	169.000	39.834	4.170.294	1.579.826	1.250
DRY	343.966.644	9.142.343	13.969.577	36.185.555	105.649.008	25.705.461	108.178.507	778.756	36.300.942	8.056.495
TANK	253.730.198	52.774.695	42.870.053	58.333.830	52.262.459	10.707.438	23.827.823	396.783	9.491.665	3.065.452
TOTAL NON-SELF-PROP.	597.696.842	61.917.038	56.839.630	94.519.385	157.911.467	36.412.899	132.006.330	1.175.539	45.792.607	11.121.947
TOTAL RECEIVING	622.444.145	72.274.049	59.239.070	100.056.091	158.405.409	36.581.899	132.046.164	5.345.833	47.372.433	11.123.197

* INCLUDES GOVERNMENT MATERIALS TRANSPORTED FOR WATERWAYS IMPROVEMENTS. DOES NOT INCLUDE CARGO CARRIED BY TOWBOATS NOR CARGO CARRIED IN NONCONTIGUOUS AREAS.

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U.S. INLAND WATERWAYS COMMERCE BETWEEN AREAS IN TANK VESSELS FOR 1979 *

SHORT TONS

SHIPPING	RECEIVING									
	TOTAL TONS	NORTH EASTERN	ATLANTIC I.W.	GULF I.W.	LOWER MISS.	UPPER MISS.	OHIO & TRIB.	CALIFORNIA	PACIFIC N.W.	GREAT LAKES
N. EASTERN	60.819.812	56.569.432	4.163.405	0	0	0	0	0	0	86.975
ATL. I.W.	44.137.522	6.045.946	38.091.576	0	0	0	0	0	0	0
GULF I.W.	75.746.935	0	1.000.185	48.799.633	19.470.800	1.205.840	3.939.186	0	0	1.331.291
LOWER MISS.	48.769.696	0	66.100	9.269.201	28.833.734	3.077.060	6.527.464	0	0	996.137
UPPER MISS.	8.904.874	0	0	277.422	2.026.538	5.307.944	893.050	0	0	397.920
OHIO & TRIB.	15.422.092	0	1.443	609.950	1.646.491	587.421	12.323.658	0	0	253.129
CALIFORNIA	4.119.665	0	0	0	0	0	0	4.119.665	0	0
PACIFIC N.W.	10.797.391	0	0	0	0	0	0	0	10.797.391	0
GREAT LAKES	1.499.601	0	0	241.296	581.695	529.173	147.437	0	0	0
TOTAL TANK VESSELS	270.217.588	62.615.378	43.322.709	59.197.502	52.561.258	10.707.438	23.630.795	4.119.665	10.797.391	3.065.452

U.S. INLAND WATERWAYS COMMERCE BETWEEN AREAS IN DRY VESSELS FOR 1979 *

SHORT TONS

SHIPPING	RECEIVING									
	TOTAL TONS	NORTH EASTERN	ATLANTIC I.W.	GULF I.W.	LOWER MISS.	UPPER MISS.	OHIO & TRIB.	CALIFORNIA	PACIFIC N.W.	GREAT LAKES
N. EASTERN	8.813.174	8.793.744	19.430	0	0	0	0	0	0	0
ATL. I.W.	14.907.055	864.927	14.010.033	31.295	0	650	150	0	0	0
GULF I.W.	43.599.419	0	307.235	34.925.181	4.063.169	1.371.564	2.303.321	0	0	628.949
LOWER MISS.	42.093.805	0	100.917	2.020.764	27.855.425	4.652.904	5.847.258	0	0	1.616.537
UPPER MISS.	67.232.418	0	0	956.242	43.968.624	15.943.041	996.734	0	0	5.367.777
OHIO & TRIB.	134.256.529	0	1.278.151	2.393.222	28.651.676	2.601.306	98.887.692	0	0	444.482
CALIFORNIA	1.226.168	0	0	0	0	0	0	1.226.168	0	0
PACIFIC N.W.	36.575.042	0	0	0	0	0	0	0	36.575.042	0
GREAT LAKES	3.522.947	0	200.595	531.885	1.305.257	1.304.996	180.214	0	0	0
TOTAL DRY VESSELS	352.226.557	9.658.671	15.916.361	40.858.589	105.844.151	25.874.451	108.215.369	1.226.168	36.575.042	8.057.745

* INCLUDES GOVERNMENT MATERIALS TRANSPORTED FOR WATERWAYS IMPROVEMENTS. DOES NOT INCLUDE CARGO CARRIED BY TOWBOATS NOR CARGO CARRIED IN NONCONTIGUOUS AREAS.

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1979

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
NORTH EASTERN						
NORTH EASTERN						
FARM PRODUCTS	76,822	76,822	0	76,822	76,822	0
MARINE PRODUCTS	446,516	446,516	0	446,516	446,516	0
COAL	531,177	531,177	0	531,177	531,177	0
CRUDE PETROLEUM	2,406,436	0	2,406,436	2,406,436	0	2,406,436
NON-METALLIC MIN. EX. FUELS	4,504,629	4,345,925	158,704	4,504,629	4,345,925	158,704
CHEMICALS & ALLIED PRODUCTS	236,296	8,840	227,456	236,296	8,840	227,456
PETROLEUM & COAL PRODUCTS	46,016,396	11,763	46,004,633	46,016,396	11,763	46,004,633
OTHER	11,144,904	3,372,701	7,772,203	11,144,904	3,372,701	7,772,203
TOTAL	65,363,176	8,793,744	56,569,432	65,363,176	8,793,744	56,569,432
NORTH EASTERN						
ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	12,742	12,742	0	1,059	1,059	0
COAL	0	0	0	844,945	844,945	0
CRUDE PETROLEUM	81,699	0	81,699	2,277,245	0	2,277,245
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	172,378	0	172,378	189,459	10,686	178,773
PETROLEUM & COAL PRODUCTS	3,913,247	3,919	3,909,328	3,342,303	884	3,341,419
OTHER	2,769	2,769	0	255,862	7,353	248,509
TOTAL	4,182,835	19,430	4,163,405	6,910,373	864,927	6,045,946
NORTH EASTERN						
GREAT LAKES						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	86,975	0	86,975	0	0	0
OTHER	0	0	0	0	0	0
TOTAL	86,975	0	86,975	0	0	0

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1979

(SHORT TONS)

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TOTAL FOR NORTH EASTERN	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	76,822	76,822	0	76,822	76,822	0
MARINE PRODUCTS	459,258	459,258	0	447,575	447,575	0
COAL	531,177	531,177	0	1,376,122	1,376,122	0
CRUDE PETROLEUM	2,488,135	0	2,488,135	4,683,681	0	4,683,681
NON-METALLIC MIN. EX. FUELS	4,504,629	4,345,925	158,704	4,504,629	4,345,925	158,704
CHEMICALS & ALLIED PRODUCTS	408,674	8,840	399,834	425,755	19,526	406,229
PETROLEUM & COAL PRODUCTS	50,016,618	15,682	50,000,936	49,358,699	12,647	49,346,052
OTHER	11,147,573	3,375,470	7,772,203	11,400,766	3,330,054	8,070,712
TOTAL	69,632,986	8,813,174	60,819,812	72,274,049	9,608,671	62,665,378

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1979

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
ATLANTIC INLAND WATERWAYS LOWER MISSISSIPPI						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	99.517	99.517	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	1.400	1.400	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	66.100	0	66.100
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	0	0	0	0	0	0
TOTAL	0	0	0	167.017	100.917	66.100
ATLANTIC INLAND WATERWAYS UPPER MISSISSIPPI						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	650	650	0	0	0	0
TOTAL	650	650	0	0	0	0
ATLANTIC INLAND WATERWAYS OHIO & TRIBUTARIES						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	1.279.594	1.278.151	1.443
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	150	150	0	0	0	0
TOTAL	150	150	0	1.279.594	1.278.131	1.443

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1979

(SHORT TONS)

ATLANTIC INLAND WATERWAYS GREAT LAKES	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	150	150	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	200.445	200.445	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	0	0	0	0	0	0
TOTAL	0	0	0	200.595	200.595	0

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1979

(SHORT TONS)

TOTAL FOR ATLANTIC INLAND WATERWAYS	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	425,474	425,474	0	425,474	425,474	0
MARINE PRODUCTS	1,416,046	1,416,046	0	1,427,867	1,427,867	0
COAL	3,498,849	3,473,468	25,381	4,333,193	4,304,869	28,324
CRUDE PETROLEUM	12,512,139	0	12,512,139	10,318,891	0	10,318,891
NON-METALLIC MIN. EX. FUELS	5,492,467	4,946,783	545,684	5,694,312	5,118,628	575,684
CHEMICALS & ALLIED PRODUCTS	2,691,473	1,222,762	1,468,711	2,944,653	1,215,942	1,728,711
PETROLEUM & COAL PRODUCTS	29,406,978	306,325	29,100,653	30,774,014	309,360	30,464,654
OTHER	3,601,151	3,116,197	484,954	3,320,666	3,084,221	236,445
TOTAL	59,044,577	14,907,055	44,137,522	59,239,070	15,886,361	43,352,709

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1979

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
GULF INLAND WATERWAYS — ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	12	12	0
COAL	301,626	300,126	1,500	1,448	1,448	0
CRUDE PETROLEUM	2,298	0	2,298	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	204,161	3,866	200,295	0	0	0
PETROLEUM & COAL PRODUCTS	796,092	0	796,092	0	0	0
OTHER	3,243	3,243	0	29,835	29,835	0
TOTAL	1,307,420	307,235	1,000,185	31,295	31,295	0
GULF INLAND WATERWAYS — GULF INLAND WATERWAYS						
FARM PRODUCTS	702,422	698,166	4,256	702,422	698,166	4,256
MARINE PRODUCTS	8,313,012	8,145,761	167,251	8,313,012	8,145,761	167,251
COAL	7,210,423	7,199,085	11,338	7,210,423	7,199,085	11,338
CRUDE PETROLEUM	16,224,837	54,498	16,170,339	16,224,837	54,498	16,170,339
NON-METALLIC MIN. EX. FUELS	8,677,011	7,068,181	1,608,830	8,677,011	7,068,181	1,608,830
CHEMICALS & ALLIED PRODUCTS	9,026,316	783,776	8,242,540	9,026,316	783,776	8,242,540
PETROLEUM & COAL PRODUCTS	21,831,864	710,695	21,121,169	21,831,864	710,695	21,121,169
OTHER	11,738,929	10,265,019	1,473,910	11,738,929	10,265,019	1,473,910
TOTAL	83,724,814	34,925,181	48,799,633	83,724,814	34,925,181	48,799,633
GULF INLAND WATERWAYS — LOWER MISSISSIPPI						
FARM PRODUCTS	463,394	463,394	0	168,914	168,914	0
MARINE PRODUCTS	773,088	702,088	71,000	1,207	1,207	0
COAL	71,915	71,915	0	351,586	351,586	0
CRUDE PETROLEUM	6,904,642	55,964	6,848,678	2,013,362	2,145	2,011,217
NON-METALLIC MIN. EX. FUELS	2,587,103	1,090,477	1,496,626	232,609	166,128	66,481
CHEMICALS & ALLIED PRODUCTS	3,081,449	519,627	2,561,822	2,212,087	190,364	2,021,723
PETROLEUM & COAL PRODUCTS	8,706,111	278,544	8,427,567	5,249,431	173,188	5,076,243
OTHER	946,267	881,160	65,107	1,060,769	967,232	93,537
TOTAL	23,533,969	4,063,169	19,470,800	11,289,965	2,020,764	9,269,201

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1979

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
GULF INLAND WATERWAYS UPPER MISSISSIPPI						
FARM PRODUCTS	1,255	1,255	0	261,679	261,679	0
MARINE PRODUCTS	13,417	13,417	0	0	0	0
COAL	0	0	0	35,837	35,837	0
CRUDE PETROLEUM	10,162	0	10,162	16,175	0	16,175
NON-METALLIC MIN. EX. FUELS	1,123,370	1,117,361	6,009	295,999	294,502	1,497
CHEMICALS & ALLIED PRODUCTS	649,099	123,555	525,544	62,993	0	62,993
PETROLEUM & COAL PRODUCTS	658,683	8,863	649,820	284,276	107,066	177,210
OTHER	121,418	107,113	14,305	276,705	257,158	19,547
TOTAL	2,577,404	1,371,564	1,205,840	1,233,664	956,242	277,422
GULF INLAND WATERWAYS OHIO & TRIBUTARIES						
FARM PRODUCTS	0	0	0	64,200	64,200	0
MARINE PRODUCTS	12,008	12,008	0	0	0	0
COAL	0	0	0	1,364,011	1,362,245	1,766
CRUDE PETROLEUM	69,611	0	69,611	0	0	0
NON-METALLIC MIN. EX. FUELS	1,405,502	1,368,528	36,974	18,142	13,942	4,200
CHEMICALS & ALLIED PRODUCTS	2,493,201	417,401	2,075,800	273,844	3,193	270,651
PETROLEUM & COAL PRODUCTS	1,845,891	94,935	1,750,956	436,679	108,787	327,892
OTHER	416,294	410,449	5,845	846,296	840,855	5,441
TOTAL	6,242,507	2,303,321	3,939,186	3,003,172	2,393,222	609,950
GULF INLAND WATERWAYS GREAT LAKES						
FARM PRODUCTS	0	0	0	4,001	4,001	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	5,359	5,359	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	549,672	545,374	4,298	0	0	0
CHEMICALS & ALLIED PRODUCTS	659,382	20,527	638,855	57,418	3,023	54,395
PETROLEUM & COAL PRODUCTS	690,932	2,794	688,138	190,562	40,213	150,349
OTHER	60,254	60,254	0	515,841	479,269	36,572
TOTAL	1,960,240	628,949	1,331,291	773,181	531,285	241,316

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1979

(SHORT TONS)

TOTAL FOR GULF INLAND WATERWAYS	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	1,167,071	1,162,815	4,256	1,201,216	1,196,960	4,256
MARINE PRODUCTS	9,111,525	8,873,274	238,251	8,314,231	8,146,980	167,251
COAL	7,583,964	7,571,126	12,838	8,968,664	8,955,560	13,104
CRUDE PETROLEUM	23,211,550	110,462	23,101,088	18,254,374	56,643	18,197,731
NON-METALLIC MIN. EX. FUELS	14,342,658	11,189,921	3,152,737	9,223,761	7,842,753	1,381,008
CHEMICALS & ALLIED PRODUCTS	16,113,608	1,868,752	14,244,856	11,632,658	980,356	10,652,302
PETROLEUM & COAL PRODUCTS	34,529,573	1,095,831	33,433,742	27,992,812	1,139,949	26,852,863
OTHER	13,286,405	11,727,238	1,559,167	14,468,375	12,839,388	1,628,987
TOTAL	119,346,354	43,599,419	75,746,935	100,056,091	42,038,589	58,017,502

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1979

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
LOWER MISSISSIPPI ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	99,517	99,517	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	1,400	1,400	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	66,100	0	66,100	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	0	0	0	0	0	0
TOTAL	167,017	100,917	66,100	0	0	0
LOWER MISSISSIPPI GULF INLAND WATERWAYS						
FARM PRODUCTS	168,914	168,914	0	463,394	463,394	0
MARINE PRODUCTS	1,207	1,207	0	773,088	702,088	71,000
COAL	351,586	351,586	0	71,915	71,915	0
CRUDE PETROLEUM	2,013,362	2,145	2,011,217	6,904,642	55,964	6,848,678
NON-METALLIC MIN. EX. FUELS	232,609	166,128	66,481	2,587,103	1,090,477	1,496,626
CHEMICALS & ALLIED PRODUCTS	2,212,087	190,364	2,021,723	3,081,449	519,627	2,561,822
PETROLEUM & COAL PRODUCTS	5,249,431	173,188	5,076,243	8,706,111	278,544	8,427,567
OTHER	1,060,769	967,232	93,537	946,267	881,160	65,107
TOTAL	11,289,965	2,020,764	9,269,201	23,533,969	4,063,169	19,470,800
LOWER MISSISSIPPI LOWER MISSISSIPPI						
FARM PRODUCTS	6,218,524	6,203,556	14,968	6,218,524	6,203,556	14,968
MARINE PRODUCTS	550	550	0	550	550	0
COAL	3,772,073	3,757,514	14,559	3,772,073	3,757,514	14,559
CRUDE PETROLEUM	6,549,922	86,988	6,462,934	6,549,922	86,988	6,462,934
NON-METALLIC MIN. EX. FUELS	11,603,434	10,549,329	1,054,105	11,603,434	10,549,329	1,054,105
CHEMICALS & ALLIED PRODUCTS	5,001,989	1,297,267	3,704,722	5,001,989	1,297,267	3,704,722
PETROLEUM & COAL PRODUCTS	17,536,022	495,922	17,040,100	17,536,022	495,922	17,040,100
OTHER	6,006,645	5,464,299	542,346	6,006,645	5,464,299	542,346
TOTAL	56,689,159	27,855,425	28,833,734	56,689,159	27,855,425	28,833,734

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1979

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
LOWER MISSISSIPPI UPPER MISSISSIPPI						
FARM PRODUCTS	50.472	50.472	0	33.117.236	33.048.237	68.999
MARINE PRODUCTS	0	0	0	0	0	0
COAL	501.490	501.490	0	4.390.070	4.390.070	0
CRUDE PETROLEUM	220.964	3.000	217.964	4.136	0	4.136
NON-METALLIC MIN. EX. FUELS	1.180.154	1.180.154	0	232.195	210.698	21.497
CHEMICALS & ALLIED PRODUCTS	3.393.448	1.844.712	1.548.736	163.989	22.323	141.666
PETROLEUM & COAL PRODUCTS	1.501.394	511.793	989.601	1.594.552	365.002	1.229.550
OTHER	882.042	561.283	320.759	6.494.984	5.932.294	562.690
TOTAL	7.729.964	4.652.904	3.077.060	45.997.162	43.968.624	2.028.538
LOWER MISSISSIPPI OHIO & TRIBUTARIES						
FARM PRODUCTS	13.311	13.311	0	4.966.374	4.950.358	16.016
MARINE PRODUCTS	0	0	0	0	0	0
COAL	279.812	279.812	0	19.051.726	19.037.440	14.286
CRUDE PETROLEUM	409.039	0	409.039	0	0	0
NON-METALLIC MIN. EX. FUELS	608.770	451.587	157.183	1.968.844	1.964.843	4.001
CHEMICALS & ALLIED PRODUCTS	4.017.401	2.351.167	1.666.234	249.061	55.583	193.478
PETROLEUM & COAL PRODUCTS	4.546.729	305.001	4.241.728	1.372.098	128.711	1.243.387
OTHER	2.499.660	2.446.380	53.280	2.690.064	2.514.741	175.323
TOTAL	12.374.722	5.847.258	6.527.464	30.298.167	28.651.676	1.646.491
LOWER MISSISSIPPI GREAT LAKES						
FARM PRODUCTS	0	0	0	317.024	315.632	1.392
MARINE PRODUCTS	0	0	0	0	0	0
COAL	25.726	25.726	0	4.985	4.985	0
CRUDE PETROLEUM	0	0	0	18.964	0	18.964
NON-METALLIC MIN. EX. FUELS	145.998	145.998	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	764.992	34.855	730.137	127.925	11.388	116.537
PETROLEUM & COAL PRODUCTS	617.292	381.713	235.579	400.183	32.572	367.611
OTHER	1.058.666	1.028.245	30.421	1.017.871	940.680	77.191
TOTAL	2.612.674	1.616.537	996.137	1.886.952	1.305.257	581.695

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1979

(SHORT TONS)

TOTAL FOR LOWER MISSISSIPPI	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	6.451.221	6.436.253	14.968	45.082.552	44.981.177	101.375
MARINE PRODUCTS	1.757	1.757	0	773.638	702.638	71.000
COAL	5.030.204	5.015.645	14.559	27.290.769	27.261.924	28.845
CRUDE PETROLEUM	9.193.287	92.133	9.101.154	13.477.664	142.952	13.334.712
NON-METALLIC MIN. EX. FUELS	13.772.365	12.494.596	1.277.769	16.391.576	13.815.347	2.576.229
CHEMICALS & ALLIED PRODUCTS	15.456.017	5.718.365	9.737.652	8.624.413	1.906.168	6.718.245
PETROLEUM & COAL PRODUCTS	29.450.868	1.867.617	27.583.251	29.608.966	1.300.751	28.308.215
OTHER	11.507.782	10.467.439	1.040.343	17.155.831	15.733.174	1.422.657
TOTAL	90.863.501	42.093.805	48.769.696	158.405.409	105.934.151	52.561.258

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1979

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
UPPER MISSISSIPPI ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	0	0	0	650	650	0
TOTAL	0	0	0	650	650	0
UPPER MISSISSIPPI GULF INLAND WATERWAYS						
FARM PRODUCTS	261,679	261,679	0	1,255	1,255	0
MARINE PRODUCTS	0	0	0	13,417	13,417	0
COAL	35,837	35,837	0	0	0	0
CRUDE PETROLEUM	16,175	0	16,175	10,162	0	10,162
NON-METALLIC MIN. EX. FUELS	295,999	294,502	1,497	1,123,370	1,117,361	6,009
CHEMICALS & ALLIED PRODUCTS	62,993	0	62,993	649,099	123,555	525,544
PETROLEUM & COAL PRODUCTS	284,276	107,066	177,210	658,683	8,863	649,820
OTHER	276,705	257,158	19,547	121,418	107,113	14,305
TOTAL	1,233,664	956,242	277,422	2,577,404	1,371,564	1,205,840
UPPER MISSISSIPPI LOWER MISSISSIPPI						
FARM PRODUCTS	33,117,236	33,048,237	68,999	50,472	50,472	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	4,390,070	4,390,070	0	501,490	501,490	0
CRUDE PETROLEUM	4,136	0	4,136	220,964	3,000	217,964
NON-METALLIC MIN. EX. FUELS	232,195	210,698	21,497	1,180,154	1,180,154	0
CHEMICALS & ALLIED PRODUCTS	163,989	22,323	141,666	3,393,448	1,844,712	1,548,736
PETROLEUM & COAL PRODUCTS	1,594,552	365,002	1,229,550	1,501,394	511,793	989,601
OTHER	6,494,984	5,932,294	562,690	882,042	561,283	320,759
TOTAL	45,997,162	43,968,624	2,028,538	7,729,964	4,652,904	3,077,060

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1979

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
UPPER MISSISSIPPI						
UPPER MISSISSIPPI						
FARM PRODUCTS	350,939	350,939	0	350,939	350,939	0
MARINE PRODUCTS	256	256	0	256	256	0
COAL	6,351,487	6,349,959	1,528	6,351,487	6,349,959	1,528
CRUDE PETROLEUM	31,480	0	31,480	31,480	0	31,480
NON-METALLIC MIN. EX. FUELS	7,928,964	7,918,315	10,649	7,928,964	7,918,315	10,649
CHEMICALS & ALLIED PRODUCTS	584,463	14,343	570,120	584,463	14,343	570,120
PETROLEUM & COAL PRODUCTS	4,895,945	227,150	4,668,795	4,895,945	227,150	4,668,795
OTHER	1,107,451	1,082,079	25,372	1,107,451	1,082,079	25,372
TOTAL	21,250,985	15,943,041	5,307,944	21,250,985	15,943,041	5,307,944
UPPER MISSISSIPPI						
OHIO & TRIBUTARIES						
FARM PRODUCTS	342,367	342,367	0	11,798	11,798	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	4,212	4,212	0	2,166,957	2,162,614	4,343
CRUDE PETROLEUM	21,258	0	21,258	0	0	0
NON-METALLIC MIN. EX. FUELS	62,856	62,856	0	1,478	1,478	0
CHEMICALS & ALLIED PRODUCTS	98,310	25,637	72,673	100,550	7,199	93,351
PETROLEUM & COAL PRODUCTS	797,066	34,952	762,114	491,128	1,401	489,727
OTHER	563,715	526,710	37,005	416,816	416,816	0
TOTAL	1,889,784	996,734	893,050	3,188,727	2,601,306	587,421
UPPER MISSISSIPPI						
GREAT LAKES						
FARM PRODUCTS	23,717	23,717	0	8,751	8,751	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	3,226,259	3,224,926	1,333	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	1,327,915	1,325,209	2,706	885,634	880,269	5,365
CHEMICALS & ALLIED PRODUCTS	144,494	5,314	139,180	45,758	11,171	34,587
PETROLEUM & COAL PRODUCTS	492,922	242,880	250,042	300,041	10,510	289,531
OTHER	550,390	545,731	4,659	593,985	394,295	199,690
TOTAL	5,765,697	5,367,777	397,920	1,834,169	1,304,996	529,173

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1979

(SHORT TONS)

TOTAL FOR UPPER MISSISSIPPI	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	34,095,938	34,026,939	68,999	423,215	423,215	0
MARINE PRODUCTS	256	256	0	13,673	13,673	0
COAL	14,007,865	14,005,004	2,861	9,019,934	9,014,063	5,871
CRUDE PETROLEUM	73,049	0	73,049	262,606	3,000	259,606
NON-METALLIC MIN. EX. FUELS	9,847,929	9,811,580	36,349	11,119,600	11,097,577	22,023
CHEMICALS & ALLIED PRODUCTS	1,054,249	67,617	986,632	4,773,318	2,000,980	2,772,338
PETROLEUM & COAL PRODUCTS	8,064,761	977,050	7,087,711	7,847,191	759,717	7,087,474
OTHER	8,993,245	8,343,972	649,273	3,122,362	2,532,236	590,126
TOTAL	76,137,292	67,232,418	8,904,874	36,581,895	25,874,481	10,707,439

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1979

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
OHIO & TRIBUTARIES ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	1,279,594	1,278,151	1,443	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	0	0	0	150	150	0
TOTAL	1,279,594	1,278,151	1,443	150	150	0
OHIO & TRIBUTARIES GULF INLAND WATERWAYS						
FARM PRODUCTS	64,200	64,200	0	0	0	0
MARINE PRODUCTS	0	0	0	12,008	12,008	0
COAL	1,364,011	1,362,245	1,766	0	0	0
CRUDE PETROLEUM	0	0	0	69,611	0	69,611
NON-METALLIC MIN. EX. FUELS	18,142	13,942	4,200	1,405,502	1,368,528	36,974
CHEMICALS & ALLIED PRODUCTS	273,844	3,193	270,651	2,493,201	417,401	2,075,800
PETROLEUM & COAL PRODUCTS	436,679	108,787	327,892	1,845,891	94,935	1,750,956
OTHER	846,296	840,855	5,441	416,294	410,449	5,845
TOTAL	3,003,172	2,393,222	609,950	6,242,507	2,303,321	3,939,186
OHIO & TRIBUTARIES LOWER MISSISSIPPI						
FARM PRODUCTS	4,966,374	4,950,358	16,016	13,311	13,311	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	19,051,726	19,037,440	14,286	279,812	279,812	0
CRUDE PETROLEUM	0	0	0	409,039	0	409,039
NON-METALLIC MIN. EX. FUELS	1,968,844	1,964,843	4,001	608,770	451,587	157,183
CHEMICALS & ALLIED PRODUCTS	249,061	55,583	193,478	4,017,401	2,351,167	1,666,234
PETROLEUM & COAL PRODUCTS	1,372,098	128,711	1,243,387	4,546,729	305,001	4,241,728
OTHER	2,690,064	2,514,741	175,323	2,499,660	2,446,380	53,280
TOTAL	30,298,167	28,651,676	1,646,491	12,374,722	5,847,258	6,527,464

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.. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1979

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
OHIO & TRIBUTARIES						
UPPER MISSISSIPPI						
FARM PRODUCTS	11,798	11,798	0	342,367	342,367	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	2,166,957	2,162,614	4,343	4,212	4,212	0
CRUDE PETROLEUM	0	0	0	21,258	0	21,258
NON-METALLIC MIN. EX. FUELS	1,478	1,478	0	62,856	62,856	0
CHEMICALS & ALLIED PRODUCTS	100,550	7,199	93,351	98,310	25,637	72,673
PETROLEUM & COAL PRODUCTS	491,128	1,401	489,727	797,066	34,952	762,114
OTHER	416,816	416,816	0	563,715	526,710	37,005
TOTAL	3,188,727	2,601,306	587,421	1,889,784	996,734	893,050
OHIO & TRIBUTARIES						
OHIO & TRIBUTARIES						
FARM PRODUCTS	84,422	84,422	0	84,422	84,422	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	78,226,617	78,194,686	31,931	78,226,617	78,194,686	31,931
CRUDE PETROLEUM	120,004	0	120,004	120,004	0	120,004
NON-METALLIC MIN. EX. FUELS	17,941,752	17,936,687	5,065	17,941,752	17,936,687	5,065
CHEMICALS & ALLIED PRODUCTS	2,362,085	72,091	2,289,994	2,362,085	72,091	2,289,994
PETROLEUM & COAL PRODUCTS	9,920,673	84,942	9,835,731	9,920,673	84,942	9,835,731
OTHER	2,555,797	2,514,864	40,933	2,555,797	2,514,864	40,933
TOTAL	111,211,350	98,887,692	12,323,658	111,211,350	98,887,692	12,323,658
OHIO & TRIBUTARIES						
GREAT LAKES						
FARM PRODUCTS	0	0	0	1,542	1,542	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	213,929	213,929	0	0	0	0
CRUDE PETROLEUM	0	0	0	68,787	0	68,787
NON-METALLIC MIN. EX. FUELS	4,476	4,476	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	95,607	2,443	93,164	15,441	0	15,441
PETROLEUM & COAL PRODUCTS	157,589	0	157,689	107,874	47,259	60,615
OTHER	225,910	223,634	2,276	134,007	131,413	2,594
TOTAL	697,611	444,482	253,129	327,651	180,214	147,437

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1979

(SHORT TONS)

TOTAL FOR OHIO & TRIBUTARIES

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	5,126,794	5,110,778	16,016	441,642	441,642	0
MARINE PRODUCTS	0	0	0	12,008	12,008	0
COAL	102,302,834	102,249,065	53,769	78,510,641	78,478,710	31,931
CRUDE PETROLEUM	120,004	0	120,004	688,699	0	688,699
NON-METALLIC MIN. EX. FUELS	19,934,692	19,921,426	13,266	20,018,880	19,819,658	199,222
CHEMICALS & ALLIED PRODUCTS	3,081,147	140,509	2,940,638	8,986,438	2,866,296	6,120,142
PETROLEUM & COAL PRODUCTS	12,378,267	323,841	12,054,426	17,218,233	567,089	16,651,114
OTHER	6,734,883	6,510,910	223,973	6,169,623	6,029,966	139,657
TOTAL	149,678,621	134,256,529	15,422,092	132,046,164	108,215,369	23,830,795

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1979

(SHORT TONS)

TOTAL FOR CALIFORNIA	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	3,280,887	0	3,280,887	3,280,887	0	3,280,887
NON-METALLIC MIN. EX. FUELS	719,702	719,702	0	719,702	719,702	0
CHEMICALS & ALLIED PRODUCTS	30,249	16,320	13,929	30,249	16,320	13,929
PETROLEUM & COAL PRODUCTS	828,837	3,988	824,849	828,837	3,988	824,849
OTHER	486,158	486,158	0	486,158	486,158	0
TOTAL	5,345,833	1,226,168	4,119,665	5,345,833	1,226,168	4,119,665

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CALIFORNIA CALIFORNIA	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	3,280,887	0	3,280,887	3,280,887	0	3,280,887
NON-METALLIC MIN. EX. FUELS	719,702	719,702	0	719,702	719,702	0
CHEMICALS & ALLIED PRODUCTS	30,249	16,320	13,929	30,249	16,320	13,929
PETROLEUM & COAL PRODUCTS	828,837	3,988	824,849	828,837	3,988	824,849
OTHER	486,158	486,158	0	486,158	486,158	0
TOTAL	5,345,833	1,226,168	4,119,665	5,345,833	1,226,168	4,119,665

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1979

(SHORT TONS)

PACIFIC NORTHWEST PACIFIC NORTHWEST	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	4,417,159	2,998,547	1,418,612	4,417,159	2,998,547	1,418,612
MARINE PRODUCTS	148,983	148,933	50	148,983	148,933	50
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	1,789,134	476,591	1,312,543	1,789,134	476,591	1,312,543
NON-METALLIC MIN. EX. FUELS	9,650,514	9,577,993	72,521	9,650,514	9,577,993	72,521
CHEMICALS & ALLIED PRODUCTS	602,420	10,874	591,546	602,420	10,874	591,546
PETROLEUM & COAL PRODUCTS	7,746,801	622,065	7,124,736	7,746,801	622,065	7,124,736
OTHER	23,017,422	22,740,039	277,383	23,017,422	22,740,039	277,383
TOTAL	47,372,433	36,575,042	10,797,391	47,372,433	36,575,042	10,797,391

TOTAL FOR PACIFIC NORTHWEST	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	4,417,159	2,998,547	1,418,612	4,417,159	2,998,547	1,418,612
MARINE PRODUCTS	148,983	148,933	50	148,983	148,933	50
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	1,789,134	476,591	1,312,543	1,789,134	476,591	1,312,543
NON-METALLIC MIN. EX. FUELS	9,650,514	9,577,993	72,521	9,650,514	9,577,993	72,521
CHEMICALS & ALLIED PRODUCTS	602,420	10,874	591,546	602,420	10,874	591,546
PETROLEUM & COAL PRODUCTS	7,746,801	622,065	7,124,736	7,746,801	622,065	7,124,736
OTHER	23,017,422	22,740,039	277,383	23,017,422	22,740,039	277,383
TOTAL	47,372,433	36,575,042	10,797,391	47,372,433	36,575,042	10,797,391

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1979

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
GREAT LAKES NORTH EASTERN						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	86.975	0	86.975
OTHER	0	0	0	0	0	0
TOTAL	0	0	0	86.975	0	86.975
GREAT LAKES ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	150	150	0	0	0	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	200.445	200.445	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	0	0	0	0	0	0
TOTAL	200.595	200.595	0	0	0	0
GREAT LAKES GULF INLAND WATERWAYS						
FARM PRODUCTS	4.001	4.001	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	5.359	5.359	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	549.672	545.374	4.298
CHEMICALS & ALLIED PRODUCTS	57.418	3.023	54.395	659.382	20.527	638.855
PETROLEUM & COAL PRODUCTS	190.562	40.213	150.349	690.932	2.794	688.138
OTHER	515.841	479.289	36.552	60.254	60.254	0
TOTAL	773.181	531.885	241.296	1.960.240	628.949	1.331.291

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1979

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
GREAT LAKES						
LOWER MISSISSIPPI						
FARM PRODUCTS	317,024	315,632	1,392	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	4,985	4,985	0	25,726	25,726	0
CRUDE PETROLEUM	18,964	0	18,964	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	145,998	145,998	0
CHEMICALS & ALLIED PRODUCTS	127,925	11,388	116,537	764,992	34,855	730,137
PETROLEUM & COAL PRODUCTS	400,183	32,572	367,611	617,292	381,713	235,579
OTHER	1,017,871	940,680	77,191	1,058,668	1,028,245	30,421
TOTAL	1,886,952	1,305,257	581,695	2,612,674	1,616,537	996,137
GREAT LAKES						
UPPER MISSISSIPPI						
FARM PRODUCTS	8,751	8,751	0	23,717	23,717	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	3,226,259	3,224,926	1,333
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	885,634	880,269	5,365	1,327,915	1,325,209	2,706
CHEMICALS & ALLIED PRODUCTS	45,758	11,171	34,587	144,494	5,314	139,180
PETROLEUM & COAL PRODUCTS	300,041	10,510	289,531	492,922	242,880	250,042
OTHER	593,985	394,295	199,690	550,390	545,731	4,659
TOTAL	1,834,169	1,304,996	529,173	5,765,697	5,367,777	397,920
GREAT LAKES						
OHIO & TRIBUTARIES						
FARM PRODUCTS	1,542	1,542	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	213,929	213,929	0
CRUDE PETROLEUM	68,787	0	68,787	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	4,476	4,476	0
CHEMICALS & ALLIED PRODUCTS	15,441	0	15,441	95,607	2,443	93,164
PETROLEUM & COAL PRODUCTS	107,874	47,259	60,615	157,689	0	157,689
OTHER	134,007	131,413	2,594	225,910	223,634	2,276
TOTAL	327,651	180,214	147,437	697,611	444,482	253,129

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1979

(SHORT TONS)

TOTAL FOR GREAT LAKES	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	331,318	329,926	1,392	23,717	23,717	0
MARINE PRODUCTS	150	150	0	0	0	0
COAL	10,344	10,344	0	3,465,914	3,464,581	1,333
CRUDE PETROLEUM	87,751	0	87,751	0	0	0
NON-METALLIC MIN. EX. FUELS	1,086,079	1,080,714	5,365	2,028,061	2,021,057	7,004
CHEMICALS & ALLIED PRODUCTS	246,542	25,582	220,960	1,664,475	63,139	1,601,336
PETROLEUM & COAL PRODUCTS	998,660	130,554	868,106	2,045,810	627,387	1,418,423
OTHER	2,261,704	1,945,677	316,027	1,895,220	1,857,864	37,356
TOTAL	5,022,548	3,522,947	1,499,601	11,123,197	8,057,745	3,065,452

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U.S. INLAND WATERWAYS COMMERCE BY SHIPPING AREA AND TYPE OF VESSEL FOR 1980 *

SHORT TONS

	TOTAL TONS	NORTH EASTERN	ATLANTIC I.W.	GULF I.W.	LOWER MISS.	UPPER MISS.	OHIO & TRIB.	CALIFORNIA	PACIFIC N.W.	GREAT LAKES
DRY	6,272,971	380,131	1,271,784	3,541,346	139,528	97,146	63,103	491,994	140,139	147,800
TANK	20,425,385	9,009,264	383,060	2,167,682	477,361	4,516	0	6,609,398	1,774,104	0
TOTAL SELF-PROP.	26,698,356	9,389,395	1,654,844	5,709,028	616,889	101,662	63,103	7,101,392	1,914,243	147,800
DRY	340,315,342	8,498,571	13,629,453	36,643,122	39,525,120	70,995,678	128,296,028	1,590,084	36,849,712	4,287,574
TANK	237,164,117	49,927,315	35,335,342	67,460,529	43,272,429	9,195,328	17,611,766	22,541	11,172,746	3,166,121
TOTAL NON-SELF-PROP.	577,479,459	58,425,886	48,964,795	104,103,651	82,797,549	80,191,006	145,907,794	1,612,625	48,022,458	7,453,695
TOTAL SHIPPING	604,177,815	67,815,281	50,619,639	109,812,679	83,414,438	80,292,668	145,970,897	8,714,017	49,936,701	7,601,495

* INCLUDES GOVERNMENT MATERIALS TRANSPORTED FOR WATERWAYS IMPROVEMENTS. DOES NOT INCLUDE CARGO CARRIED BY TOWBOATS NOR CARGO CARRIED IN NONCONTIGUOUS AREAS.

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U.S. INLAND WATERWAYS COMMERCE BY RECEIVING AREA AND TYPE OF VESSEL FOR 1980 *

SHORT TONS

	TOTAL TONS	NORTH EASTERN	ATLANTIC I.W.	GULF I.W.	LOWER MISS.	UPPER MISS.	OHIO & TRIB.	CALIFORNIA	PACIFIC N.W.	GREAT LAKES
DRY	6.472.971	380.195	1.422.801	3.476.992,	216.995	92.948	49.494	491.876	140.257	1.413
TANK	20.425.385	8.984.539	407.785	2.086.238	563.321	0	0	6.761.602	1.621.900	0
TOTAL SELF-PROP.	26.698.356	9.364.734	1.830.586	5.563.230	780.316	92.948	49.494	7.253.478	1.762.157	1.413
DRY	340.315.342	9.479.929	14.320.700	35.107.858	111.113.946	22.829.063	100.562.805	1.613.534	36.826.262	8.461.245
TANK	237.164.117	50.393.436	35.916.440	55.465.047	47.841.457	11.286.382	22.143.940	22.541	11.172.746	2.922.128
TOTAL NON-SELF-PROP.	577.479.459	59.873.365	50.237.140	90.572.905	158.955.403	34.115.445	122.706.745	1.636.075	47.999.008	11.383.373
TOTAL RECEIVING	604.177.815	69.238.099	52.067.726	96.136.135	159.735.719	34.208.393	122.756.239	8.889.553	49.761.165	11.384.786

* INCLUDES GOVERNMENT MATERIALS TRANSPORTED FOR WATERWAYS IMPROVEMENTS. DOES NOT INCLUDE CARGO CARRIED BY TOWBOATS NOR CARGO CARRIED IN NONCONTIGUOUS AREAS.

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U.S. INLAND WATERWAYS COMMERCE BETWEEN AREAS IN TANK VESSELS FOR 1980 *

SHORT TONS

SHIPPING	TOTAL TONS	NORTH EASTERN	ATLANTIC I.W.	GULF I.W.	LOWER MISS.	UPPER MISS.	OHIO & TRIB.	CALIFORNIA	PACIFIC N.W.	GREAT LAKES
	RECEIVING									
N. EASTERN	58.936.579	55.136.057	3.728.233	0	0	0	0	0	0	72.289
ATL. I.W.	35.718.402	4.186.885	31.531.517	0	0	0	0	0	0	0
GULF I.W.	69.628.211	0	1.014.475	47.329.924	16.037.467	896.622	3.135.047	0	0	1.214.676
LOWER MISS.	43.749.790	0	50.000	8.569.779	26.843.357	2.785.027	4.641.944	0	0	859.683
UPPER MISS.	9.199.844	0	0	421.384	2.378.123	5.257.778	622.053	0	0	520.506
OHIO & TRIB.	17.611.766	0	0	778.292	2.439.341	569.915	13.569.244	0	0	254.974
CALIFORNIA	6.631.939	0	0	0	0	0	0	6.518.587	113.352	0
PACIFIC N.W.	12.946.850	0	0	0	0	0	0	265.556	12.681.294	0
GREAT LAKES	3.166.121	55.033	0	451.906	706.490	1.777.040	175.652	0	0	0
TOTAL TANK VESSELS	257.589.502	59.377.975	36.324.225	57.551.285	48.404.778	11.286.382	22.143.940	6.784.143	12.794.646	2.922.128

U.S. INLAND WATERWAYS COMMERCE BETWEEN AREAS IN DRY VESSELS FOR 1980 *

SHORT TONS

SHIPPING	TOTAL TONS	NORTH EASTERN	ATLANTIC I.W.	GULF I.W.	LOWER MISS.	UPPER MISS.	OHIO & TRIB.	CALIFORNIA	PACIFIC N.W.	GREAT LAKES
	RECEIVING									
N. EASTERN	8.878.702	8.864.272	14.430	0	0	0	0	0	0	0
ATL. I.W.	14.901.237	995.852	13.895.955	8.921	509	0	0	0	0	0
GULF I.W.	40.184.468	0	260.158	32.873.400	3.297.473	1.426.298	1.709.065	0	0	618.074
LOWER MISS.	39.664.648	0	18.201	1.868.655	27.138.315	5.985.285	3.482.788	0	0	1.171.404
UPPER MISS.	71.092.824	0	0	1.179.415	50.252.329	12.520.475	758.540	0	0	6.382.065
OHIO & TRIB.	128.359.131	0	1.406.957	1.954.100	28.616.410	1.666.868	94.423.681	0	0	291.115
CALIFORNIA	2.082.078	0	0	0	0	0	0	2.081.960	118	0
PACIFIC N.W.	36.989.851	0	0	0	0	0	0	23.450	36.966.401	0
GREAT LAKES	4.435.374	0	147.800	700.359	2.025.905	1.323.085	238.225	0	0	0
TOTAL DRY VESSELS	346.588.313	9.860.124	15.743.501	38.584.850	111.330.941	22.922.011	100.612.299	2.105.410	36.966.519	8.462.658

* INCLUDES GOVERNMENT MATERIALS TRANSPORTED FOR WATERWAYS IMPROVEMENTS. DOES NOT INCLUDE CARGO CARRIED BY TOWBOATS NOR CARGO CARRIED IN NONCONTIGUOUS AREAS.

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U.S. INLAND WATERWAYS COMMERCE BY APEA. COMMODITY AND TYPE OF VESSEL FOR 1980

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
NORTH EASTERN						
NORTH EASTERN						
FARM PRODUCTS	66.310	66.310	0	66.310	66.310	0
MARINE PRODUCTS	312.336	312.336	0	312.336	312.336	0
COAL	747.697	747.697	0	747.697	747.697	0
CRUDE PETROLEUM	2.250.366	0	2.250.366	2.250.366	0	2.250.366
NON-METALLIC MIN. EX. FUELS	3.943.706	3.796.338	147.368	3.943.706	3.796.338	147.368
CHEMICALS & ALLIED PRODUCTS	202.052	2.100	199.952	202.052	2.100	199.952
PETROLEUM & COAL PRODUCTS	44.422.604	35.936	44.386.668	44.422.604	35.936	44.386.668
OTHER	12.055.258	3.903.555	8.151.703	12.055.258	3.903.555	8.151.703
TOTAL	64.000.329	8.864.272	55.136.057	64.000.329	8.864.272	55.136.057
NORTH EASTERN						
ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	962.056	962.056	0
CRUDE PETROLEUM	36.970	0	36.970	1.506.872	0	1.506.872
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	133.541	13.860	119.721	439.071	15.600	423.471
PETROLEUM & COAL PRODUCTS	3.571.543	1	3.571.542	2.172.849	12.402	2.160.447
OTHER	569	569	0	101.889	5.794	96.095
TOTAL	3.742.663	14.430	3.728.233	5.182.737	995.852	4.186.885
NORTH EASTERN						
GREAT LAKES						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	72.289	0	72.289	55.033	0	55.033
OTHER	0	0	0	0	0	0
TOTAL	72.289	0	72.289	55.033	0	55.033

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1980

(SHORT TONS)

TOTAL FOR NORTH EASTERN	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	66,310	66,310	0	66,310	66,310	0
MARINE PRODUCTS	312,336	312,336	0	312,336	312,336	0
COAL	747,697	747,697	0	1,709,753	1,709,753	0
CRUDE PETROLEUM	2,287,336	0	2,287,336	3,757,238	0	3,757,238
NON-METALLIC MIN. EX. FUELS	3,943,705	3,796,338	147,368	3,943,706	3,796,338	147,368
CHEMICALS & ALLIED PRODUCTS	335,633	15,960	319,673	641,123	17,700	623,423
PETROLEUM & COAL PRODUCTS	48,066,436	35,937	48,030,499	46,650,486	48,338	46,602,148
OTHER	12,055,827	3,904,124	8,151,703	12,157,147	3,909,349	8,247,798
TOTAL	67,815,281	8,878,702	58,936,579	69,238,099	9,860,124	59,377,975

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1980

(SHORT TONS)

	SHIPPIN			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
ATLANTIC INLAND WATERWAYS NORTH EASTERN						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	962,056	962,056	0	0	0	0
CRUDE PETROLEUM	1,506,872	0	1,506,872	36,970	0	36,970
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	439,071	15,600	423,471	133,581	13,860	119,721
PETROLEUM & COAL PRODUCTS	2,172,849	12,402	2,160,447	3,571,543	1	3,571,542
OTHER	101,889	5,794	96,095	569	569	0
TOTAL	5,182,737	995,852	4,186,885	3,742,663	14,430	3,728,233
ATLANTIC INLAND WATERWAYS ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	380,515	380,515	0	380,515	380,515	0
MARINE PRODUCTS	1,010,561	1,010,561	0	1,010,561	1,010,561	0
COAL	2,902,307	2,902,807	0	2,902,807	2,902,807	0
CRUDE PETROLEUM	6,750,858	0	6,750,858	6,750,858	0	6,750,858
NON-METALLIC MIN. EX. FUELS	5,827,946	5,438,490	389,456	5,827,946	5,438,490	389,456
CHEMICALS & ALLIED PRODUCTS	2,245,375	960,216	1,285,159	2,245,375	960,216	1,285,159
PETROLEUM & COAL PRODUCTS	23,093,347	327,347	22,766,000	23,093,347	327,347	22,766,000
OTHER	3,216,063	2,876,019	340,044	3,216,063	2,876,019	340,044
TOTAL	45,427,472	13,895,955	31,531,517	45,427,472	13,895,955	31,531,517
ATLANTIC INLAND WATERWAYS GULF INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	69	69	0	0	0	0
COAL	0	0	0	254,952	254,952	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	126,214	0	126,214
PETROLEUM & COAL PRODUCTS	0	0	0	888,261	0	888,261
OTHER	8,852	8,852	0	5,206	5,206	0
TOTAL	8,921	8,921	0	1,274,633	260,158	1,014,475

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1980

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
ATLANTIC INLAND WATERWAYS LOWER MISSISSIPPI						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	18,156	18,156	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	50,000	0	50,000
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	509	509	0	45	45	0
TOTAL	509	509	0	68,201	18,201	50,000
ATLANTIC INLAND WATERWAYS OHIO & TRIBUTARIES						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	1,406,957	1,406,957	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	0	0	0	0	0	0
TOTAL	0	0	0	1,406,957	1,406,957	0
ATLANTIC INLAND WATERWAYS GREAT LAKES						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	120	120	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	147,680	147,680	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	0	0	0	0	0	0
TOTAL	0	0	0	147,800	147,800	0

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1980

(SHORT TONS)

	SHIPPING			RECEIVING		
TOTAL FOR ATLANTIC INLAND WATERWAYS	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	380.515	380.515	0	380.515	380.515	0
MARINE PRODUCTS	1.010.630	1.010.630	0	1.010.681	1.010.681	0
COAL	3.864.863	3.864.863	0	4.582.872	4.582.872	0
CRUDE PETROLEUM	8.257.730	0	8.257.730	6.787.828	0	6.787.828
NON-METALLIC MIN. EX. FUELS	5.827.946	5.438.490	389.456	5.975.626	5.586.170	389.456
CHEMICALS & ALLIED PRODUCTS	2.684.446	975.816	1.708.630	2.555.170	974.076	1.581.094
PETROLEUM & COAL PRODUCTS	25.266.196	339.749	24.926.447	27.553.151	327.348	27.225.803
OTHER	3.327.313	2.891.174	436.139	3.221.883	2.881.839	340.044
TOTAL	50.619.639	14.901.237	35.718.402	52.067.726	15.743.501	36.324.225

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1980

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
GULF INLAND WATERWAYS						
ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	69	69	0
COAL	254,952	254,952	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	126,214	0	126,214	0	0	0
PETROLEUM & COAL PRODUCTS	888,261	0	888,261	0	0	0
OTHER	5,206	5,206	0	8,852	8,852	0
TOTAL	1,274,633	260,158	1,014,475	8,921	8,921	0
GULF INLAND WATERWAYS						
GULF INLAND WATERWAYS						
FARM PRODUCTS	433,939	433,939	0	433,939	433,939	0
MARINE PRODUCTS	8,154,615	8,061,037	93,578	8,154,615	8,061,037	93,578
COAL	6,995,056	6,978,157	16,899	6,995,056	6,978,157	16,899
CRUDE PETROLEUM	14,530,435	190,083	14,340,352	14,530,435	190,083	14,340,352
NON-METALLIC MIN. EX. FUELS	7,891,667	6,703,225	1,188,442	7,891,667	6,703,225	1,188,442
CHEMICALS & ALLIED PRODUCTS	8,700,681	875,634	7,825,047	8,700,681	875,634	7,825,047
PETROLEUM & COAL PRODUCTS	24,438,496	1,251,721	23,186,775	24,438,496	1,251,721	23,186,775
OTHER	9,058,435	8,379,604	678,831	9,058,435	8,379,604	678,831
TOTAL	80,203,324	32,873,400	47,329,924	80,203,324	32,873,400	47,329,924
GULF INLAND WATERWAYS						
LOWER MISSISSIPPI						
FARM PRODUCTS	242,785	242,785	0	128,715	128,715	0
MARINE PRODUCTS	522,863	459,863	63,000	2,768	2,768	0
COAL	63,545	63,545	0	487,891	486,521	1,370
CRUDE PETROLEUM	5,611,281	37,497	5,573,784	1,256,182	14,804	1,241,379
NON-METALLIC MIN. EX. FUELS	1,830,225	916,759	913,466	208,438	161,635	46,803
CHEMICALS & ALLIED PRODUCTS	2,487,751	506,061	1,981,690	2,052,395	127,138	1,925,257
PETROLEUM & COAL PRODUCTS	7,714,978	276,582	7,438,396	5,482,068	248,726	5,233,342
OTHER	861,512	794,381	67,131	819,977	698,348	121,629
TOTAL	19,334,940	3,297,473	16,037,467	10,438,434	1,868,655	8,569,779

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1980

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
GULF INLAND WATERWAYS						
UPPER MISSISSIPPI						
FARM PRODUCTS	2,800	2,800	0	483,227	483,227	0
MARINE PRODUCTS	16,225	16,225	0	0	0	0
COAL	0	0	0	4,993	4,993	0
CRUDE PETROLEUM	0	0	0	24,919	0	24,919
NON-METALLIC MIN. EX. FUELS	1,250,807	1,249,329	1,478	264,656	263,042	1,614
CHEMICALS & ALLIED PRODUCTS	509,321	41,063	468,258	60,373	0	60,373
PETROLEUM & COAL PRODUCTS	413,374	11,106	402,268	376,182	67,789	308,393
OTHER	130,393	105,775	24,618	386,449	360,364	26,085
TOTAL	2,322,920	1,426,298	896,622	1,600,799	1,179,415	421,384
GULF INLAND WATERWAYS						
OHIO & TRIBUTARIES						
FARM PRODUCTS	2,862	2,862	0	41,128	41,128	0
MARINE PRODUCTS	11,818	11,818	0	0	0	0
COAL	0	0	0	1,074,918	1,067,732	7,186
CRUDE PETROLEUM	52,702	0	52,702	64,478	0	64,478
NON-METALLIC MIN. EX. FUELS	1,046,837	1,019,536	27,301	12,274	12,274	0
CHEMICALS & ALLIED PRODUCTS	2,089,786	547,666	1,542,120	267,545	898	266,647
PETROLEUM & COAL PRODUCTS	1,555,406	43,113	1,512,293	473,350	34,321	439,029
OTHER	84,701	84,070	631	798,699	797,747	952
TOTAL	4,844,112	1,709,065	3,135,047	2,732,392	1,954,100	778,292
GULF INLAND WATERWAYS						
GREAT LAKES						
FARM PRODUCTS	0	0	0	1,632	1,632	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	1,600	1,600	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	537,917	537,917	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	555,607	4,561	551,046	66,079	1,107	64,972
PETROLEUM & COAL PRODUCTS	680,523	16,993	663,630	369,610	19,949	349,661
OTHER	58,603	58,603	0	713,344	676,071	37,273
TOTAL	1,832,750	618,074	1,214,676	1,152,265	700,359	451,906

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1980

(SHORT TONS)

TOTAL FOR GULF INLAND WATERWAYS	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	682,386	682,386	0	1,088,641	1,088,641	0
MARINE PRODUCTS	8,705,521	8,548,943	156,578	8,157,452	8,063,874	93,578
COAL	7,313,553	7,296,654	16,899	8,564,458	8,539,003	25,455
CRUDE PETROLEUM	20,194,418	227,580	19,966,838	15,876,014	204,887	15,671,127
NON-METALLIC MIN. EX. FUELS	12,557,453	10,426,766	2,130,687	8,377,035	7,140,176	1,236,859
CHEMICALS & ALLIED PRODUCTS	14,469,360	1,974,985	12,494,375	11,147,073	1,004,777	10,142,296
PETROLEUM & COAL PRODUCTS	35,691,138	1,599,515	34,091,623	31,139,706	1,622,506	29,517,200
OTHER	10,196,850	9,427,639	771,211	11,785,756	10,920,986	864,770
TOTAL	109,812,679	40,184,468	69,628,211	96,136,135	38,584,850	57,551,285

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1980

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
LOWER MISSISSIPPI ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	18,156	18,156	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	50,000	0	50,000	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	45	45	0	509	509	0
TOTAL	68,201	18,201	50,000	509	509	0
LOWER MISSISSIPPI GULF INLAND WATERWAYS						
FARM PRODUCTS	128,715	128,715	0	242,785	242,785	0
MARINE PRODUCTS	2,768	2,768	0	522,863	459,863	63,000
COAL	487,891	486,521	1,370	63,545	63,545	0
CRUDE PETROLEUM	1,256,182	14,804	1,241,378	5,611,281	37,497	5,573,784
NON-METALLIC MIN. EX. FUELS	208,438	161,635	46,803	1,830,225	916,759	913,466
CHEMICALS & ALLIED PRODUCTS	2,052,395	127,138	1,925,257	2,487,751	506,061	1,981,690
PETROLEUM & COAL PRODUCTS	5,482,068	248,726	5,233,342	7,714,978	276,582	7,438,396
OTHER	819,977	698,348	121,629	861,512	794,381	67,131
TOTAL	10,438,434	1,868,655	8,569,779	19,334,940	3,297,473	16,037,467
LOWER MISSISSIPPI LOWER MISSISSIPPI						
FARM PRODUCTS	8,460,103	8,444,152	15,951	8,460,103	8,444,152	15,951
MARINE PRODUCTS	3,280	3,280	0	3,280	3,280	0
COAL	2,071,226	2,060,350	10,876	2,071,226	2,060,350	10,876
CRUDE PETROLEUM	5,758,776	45,449	5,713,327	5,758,776	45,449	5,713,327
NON-METALLIC MIN. EX. FUELS	9,884,616	8,872,763	1,011,853	9,884,616	8,872,763	1,011,853
CHEMICALS & ALLIED PRODUCTS	5,719,251	1,557,516	4,161,735	5,719,251	1,557,516	4,161,735
PETROLEUM & COAL PRODUCTS	16,212,844	671,683	15,541,161	16,212,844	671,683	15,541,161
OTHER	5,871,576	5,483,122	388,454	5,871,576	5,483,122	388,454
TOTAL	53,981,672	27,138,315	26,843,357	53,981,672	27,138,315	26,843,357

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1980

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
LOWER MISSISSIPPI UPPER MISSISSIPPI						
FARM PRODUCTS	90,177	90,177	0	34,483,942	34,392,768	91,174
MARINE PRODUCTS	0	0	0	0	0	0
COAL	201,946	201,946	0	8,361,805	8,357,289	4,516
CRUDE PETROLEUM	467,913	0	467,913	11,582	0	11,582
NON-METALLIC MIN. EX. FUELS	3,204,840	3,187,098	17,742	549,528	541,419	8,109
CHEMICALS & ALLIED PRODUCTS	3,439,637	1,887,849	1,551,788	223,353	58,079	165,274
PETROLEUM & COAL PRODUCTS	732,066	161,328	570,738	2,210,256	551,541	1,658,715
OTHER	633,733	456,887	176,846	6,789,986	6,351,233	438,753
TOTAL	8,770,312	5,985,285	2,785,027	52,630,452	50,252,329	2,378,123
LOWER MISSISSIPPI OHIO & TRIBUTARIES						
FARM PRODUCTS	13,514	13,514	0	3,765,820	3,757,458	8,362
MARINE PRODUCTS	0	0	0	0	0	0
COAL	78,492	78,492	0	20,628,014	20,616,760	11,254
CRUDE PETROLEUM	253,499	0	253,499	11,608	0	11,608
NON-METALLIC MIN. EX. FUELS	230,799	181,896	48,903	1,384,390	1,384,390	0
CHEMICALS & ALLIED PRODUCTS	3,636,400	2,039,819	1,596,581	229,006	42,948	186,058
PETROLEUM & COAL PRODUCTS	2,862,518	158,600	2,703,918	2,330,148	270,570	2,059,578
OTHER	1,049,510	1,010,467	39,043	2,706,765	2,544,284	162,481
TOTAL	8,124,732	3,482,788	4,641,944	31,055,751	28,616,410	2,439,341
LOWER MISSISSIPPI GREAT LAKES						
FARM PRODUCTS	2,718	2,718	0	479,919	478,719	1,200
MARINE PRODUCTS	0	0	0	0	0	0
COAL	81,136	81,136	0	6,658	6,658	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	119,317	119,317	0	1,350	1,350	0
CHEMICALS & ALLIED PRODUCTS	740,637	65,730	674,907	123,382	9,279	114,103
PETROLEUM & COAL PRODUCTS	252,824	98,395	154,429	622,136	195,568	426,568
OTHER	834,455	804,108	30,347	1,498,950	1,334,331	164,619
TOTAL	2,031,087	1,171,404	859,683	2,732,395	2,025,905	706,490

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1980

(SHORT TONS)

TOTAL FOR LOWER MISSISSIPPI	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	8,695,227	8,679,276	15,951	47,432,569	47,315,882	116,687
MARINE PRODUCTS	6,048	6,048	0	526,143	463,143	63,000
COAL	2,938,847	2,926,601	12,246	31,131,248	31,104,602	26,646
CRUDE PETROLEUM	7,736,370	60,253	7,676,117	11,393,247	82,946	11,310,301
NON-METALLIC MIN. EX. FUELS	13,648,010	12,522,709	1,125,301	13,650,109	11,716,681	1,933,428
CHEMICALS & ALLIED PRODUCTS	15,638,320	5,678,052	9,960,268	8,782,743	2,173,883	6,608,860
PETROLEUM & COAL PRODUCTS	25,542,320	1,338,732	24,203,588	29,090,362	1,965,944	27,124,418
OTHER	9,209,296	8,452,977	756,319	17,729,298	16,507,860	1,221,438
TOTAL	83,414,438	39,664,648	43,749,790	159,735,719	111,330,941	48,404,778

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1980

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
UPPER MISSISSIPPI						
GULF INLAND WATERWAYS						
FARM PRODUCTS	483,227	483,227	0	2,800	2,800	0
MARINE PRODUCTS	0	0	0	16,225	16,225	0
COAL	4,993	4,993	0	0	0	0
CRUDE PETPOLEUM	24,919	0	24,919	0	0	0
NON-METALLIC MIN. EX. FUELS	264,656	263,042	1,614	1,250,807	1,249,329	1,478
CHEMICALS & ALLIED PRODUCTS	60,373	0	60,373	509,321	41,063	468,258
PETROLEUM & COAL PRODUCTS	376,182	67,789	308,393	413,374	11,106	402,268
OTHER	386,449	360,364	26,085	130,393	105,775	24,618
TOTAL	1,600,799	1,179,415	421,384	2,322,920	1,426,298	896,622
UPPER MISSISSIPPI						
LOWER MISSISSIPPI						
FARM PRODUCTS	34,483,942	34,392,768	91,174	90,177	90,177	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	8,361,805	8,357,289	4,516	201,946	201,946	0
CRUDE PETROLEUM	11,582	0	11,582	467,913	0	467,913
NON-METALLIC MIN. EX. FUELS	549,528	541,419	8,109	3,204,840	3,187,098	17,742
CHEMICALS & ALLIED PRODUCTS	223,353	58,079	165,274	3,439,637	1,887,849	1,551,788
PETROLEUM & COAL PRODUCTS	2,210,256	551,541	1,658,715	732,066	161,328	570,738
OTHER	6,789,986	6,351,233	438,753	633,733	456,887	176,846
TOTAL	52,630,452	50,252,329	2,378,123	8,770,312	5,985,285	2,785,027
UPPER MISSISSIPPI						
UPPER MISSISSIPPI						
FARM PRODUCTS	293,516	293,516	0	293,516	293,516	0
MARINE PRODUCTS	152	152	0	152	152	0
COAL	5,847,458	5,840,380	7,078	5,847,458	5,840,380	7,078
CRUDE PETROLEUM	4,200	0	4,200	4,200	0	4,200
NON-METALLIC MIN. EX. FUELS	5,649,462	5,648,822	640	5,649,462	5,648,822	640
CHEMICALS & ALLIED PRODUCTS	1,091,127	43,027	1,048,100	1,091,127	43,027	1,048,100
PETROLEUM & COAL PRODUCTS	4,320,388	133,653	4,186,735	4,320,388	133,653	4,186,735
OTHER	923,858	912,833	11,025	923,858	912,833	11,025
TOTAL	18,130,161	12,872,383	5,257,778	18,130,161	12,872,383	5,257,778

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1980

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
UPPER MISSISSIPPI OHIO & TRIBUTARIES						
FARM PRODUCTS	298,544	298,544	0	9,676	9,676	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	18,406	13,406	0	1,484,817	1,484,817	0
CRUDE PETROLEUM	0	0	0	3,000	0	3,000
NON-METALLIC MIN. EX. FUELS	38,428	38,428	0	4,572	4,572	0
CHEMICALS & ALLIED PRODUCTS	153,185	10,062	143,123	61,533	0	61,533
PETROLEUM & COAL PRODUCTS	500,580	33,969	466,611	503,976	0	503,976
OTHER	371,450	359,131	12,319	169,209	167,803	1,406
TOTAL	1,380,593	758,540	622,053	2,236,783	1,666,868	569,915
UPPER MISSISSIPPI GREAT LAKES						
FARM PRODUCTS	17,519	17,519	0	4,382	4,382	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	4,572,548	4,569,680	2,868	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	1,154,745	1,154,745	0	833,336	833,336	0
CHEMICALS & ALLIED PRODUCTS	398,885	8,879	390,006	44,808	8,277	36,531
PETROLEUM & COAL PRODUCTS	306,823	185,180	121,643	275,641	8,136	267,505
OTHER	452,051	446,062	5,989	1,941,958	468,954	1,473,004
TOTAL	6,902,571	6,382,065	520,506	3,100,125	1,323,085	1,777,040

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1980

(SHORT TONS)

TOTAL FOR UPPER MISSISSIPPI	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	35,576,748	35,485,574	91,174	400,551	400,551	0
MARINE PRODUCTS	152	152	0	16,377	16,377	0
COAL	18,805,210	18,790,748	14,462	7,534,221	7,527,143	7,078
CRUDE PETROLEUM	40,701	0	40,701	475,113	0	475,113
NON-METALLIC MIN. EX. FUELS	7,656,819	7,646,456	10,363	10,943,017	10,923,157	19,860
CHEMICALS & ALLIED PRODUCTS	1,926,923	120,047	1,806,876	5,146,426	1,980,216	3,166,210
PETROLEUM & COAL PRODUCTS	7,714,229	972,132	6,742,097	6,245,445	314,223	5,931,222
OTHER	8,923,794	8,429,623	494,171	3,799,151	2,112,252	1,686,899
TOTAL	80,644,576	71,444,732	9,199,844	34,560,301	23,273,919	11,286,382

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1980

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
OHIO & TRIBUTARIES ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	1,406,957	1,406,957	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	0	0	0	0	0	0
TOTAL	1,406,957	1,406,957	0	0	0	0
OHIO & TRIBUTARIES GULF INLAND WATERWAYS						
FARM PRODUCTS	41,128	41,128	0	2,862	2,862	0
MARINE PRODUCTS	0	0	0	11,818	11,818	0
COAL	1,074,918	1,067,732	7,186	0	0	0
CRUDE PETROLEUM	64,478	0	64,478	52,702	0	52,702
NON-METALLIC MIN. EX. FUELS	12,274	12,274	0	1,046,837	1,019,536	27,301
CHEMICALS & ALLIED PRODUCTS	267,545	898	266,647	2,089,786	547,666	1,542,120
PETROLEUM & COAL PRODUCTS	473,350	34,321	439,029	1,555,406	43,113	1,512,293
OTHER	798,699	797,747	952	84,701	84,070	631
TOTAL	2,732,392	1,954,100	778,292	4,844,112	1,709,065	3,135,047
OHIO & TRIBUTARIES LOWER MISSISSIPPI						
FARM PRODUCTS	3,765,820	3,757,458	8,362	13,514	13,514	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	20,628,014	20,616,760	11,254	78,492	78,492	0
CRUDE PETROLEUM	11,608	0	11,608	253,499	0	253,499
NON-METALLIC MIN. EX. FUELS	1,384,390	1,384,390	0	230,799	181,896	48,903
CHEMICALS & ALLIED PRODUCTS	229,006	42,948	186,058	3,636,400	2,039,819	1,596,381
PETROLEUM & COAL PRODUCTS	2,330,148	270,570	2,059,578	2,862,518	158,600	2,703,918
OTHER	2,706,765	2,544,284	162,481	1,049,510	1,010,467	39,043
TOTAL	31,055,751	28,616,410	2,439,341	8,124,732	3,482,788	4,641,944

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1980

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
OHIO & TRIBUTARIES — UPPER MISSISSIPPI						
FARM PRODUCTS	9,676	9,676	0	298,544	298,544	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	1,484,817	1,484,817	0	18,406	18,406	0
CRUDE PETROLEUM	3,000	0	3,000	0	0	0
NON-METALLIC MIN. EX. FUELS	4,572	4,572	0	38,428	38,428	0
CHEMICALS & ALLIED PRODUCTS	61,533	0	61,533	153,185	10,062	143,123
PETROLEUM & COAL PRODUCTS	503,976	0	503,976	500,580	33,969	466,611
OTHER	169,209	167,803	1,406	371,450	359,131	12,319
TOTAL	2,236,783	1,666,868	569,915	1,380,593	758,540	622,053
OHIO & TRIBUTARIES — OHIO & TRIBUTARIES						
FARM PRODUCTS	59,844	59,844	0	59,844	59,844	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	72,382,179	72,227,685	154,494	72,382,179	72,227,685	154,494
CRUDE PETROLEUM	211,209	0	211,209	211,209	0	211,209
NON-METALLIC MIN. EX. FUELS	19,609,874	19,603,902	5,972	19,609,874	19,603,902	5,972
CHEMICALS & ALLIED PRODUCTS	3,242,984	42,347	3,200,637	3,242,984	42,347	3,200,637
PETROLEUM & COAL PRODUCTS	10,068,474	87,476	9,980,998	10,068,474	87,476	9,980,998
OTHER	2,418,361	2,402,427	15,934	2,418,361	2,402,427	15,934
TOTAL	107,992,925	94,423,681	13,569,244	107,992,925	94,423,681	13,569,244
OHIO & TRIBUTARIES — GREAT LAKES						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	11,987	11,987	0	1,931	1,931	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	5,427	5,427	0	2,250	2,250	0
CHEMICALS & ALLIED PRODUCTS	146,529	4,066	142,463	6,814	0	6,814
PETROLEUM & COAL PRODUCTS	199,700	87,189	112,511	217,956	49,118	168,838
OTHER	182,446	182,446	0	184,926	184,926	0
TOTAL	546,069	291,115	254,974	413,877	238,225	175,652

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1980

(SHORT TONS)

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TOTAL FOR OHIO & TRIBUTARIES

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	3,876,468	3,868,106	8,362	374,764	374,764	0
MARINE PRODUCTS	0	0	0	11,818	11,818	0
COAL	96,988,872	96,815,938	172,934	72,481,008	72,326,514	154,494
CRUDE PETROLEUM	290,295	0	290,295	517,410	0	517,410
NON-METALLIC MIN. EX. FUELS	21,016,537	21,010,565	5,972	20,928,188	20,846,012	82,176
CHEMICALS & ALLIED PRODUCTS	3,947,597	90,259	3,857,338	9,129,169	2,639,894	6,489,275
PETROLEUM & COAL PRODUCTS	13,575,648	479,556	13,096,092	15,204,934	372,276	14,832,658
OTHER	6,275,480	6,094,707	180,773	4,108,948	4,041,021	67,927
TOTAL	145,970,897	128,359,131	17,611,766	122,756,239	100,612,299	22,143,940

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1980

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
CALIFORNIA						
CALIFORNIA						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	7,018	7,018	0	7,018	7,018	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	4,514,874	0	4,514,874	4,514,874	0	4,514,874
NON-METALLIC MIN. EX. FUELS	1,520,061	1,520,061	0	1,520,061	1,520,061	0
CHEMICALS & ALLIED PRODUCTS	37,022	0	37,022	37,022	0	37,022
PETROLEUM & COAL PRODUCTS	1,957,179	0	1,957,179	1,957,179	0	1,957,179
OTHER	564,393	554,881	9,512	564,393	554,881	9,512
TOTAL	8,600,547	2,081,960	6,518,587	8,600,547	2,081,960	6,518,587
CALIFORNIA						
PACIFIC NORTHWEST						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	246,660	0	246,660
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	34	34	0	19,280	19,280	0
PETROLEUM & COAL PRODUCTS	113,352	0	113,352	18,896	0	18,896
OTHER	84	84	0	4,170	4,170	0
TOTAL	113,470	118	113,352	289,006	23,450	265,556

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1980

(SHORT TONS)

TOTAL FOR CALIFORNIA	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	7,018	7,018	0	7,018	7,018	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	4,514,874	0	4,514,874	4,761,534	0	4,761,534
NON-METALLIC MIN. EX. FUELS	1,520,061	1,520,061	0	1,520,061	1,520,061	0
CHEMICALS & ALLIED PRODUCTS	37,056	34	37,022	56,302	19,280	37,022
PETROLEUM & COAL PRODUCTS	2,070,531	0	2,070,531	1,976,075	0	1,976,075
OTHER	564,477	554,965	9,512	568,563	559,051	9,512
TOTAL	8,714,017	2,082,078	6,631,939	8,889,553	2,105,410	6,784,143

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1980

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
PACIFIC NORTHWEST						
CALIFORNIA						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	246,660	0	246,660	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	19,280	19,280	0	34	34	0
PETROLEUM & COAL PRODUCTS	18,896	0	18,896	113,352	0	113,352
OTHER	4,170	4,170	0	84	84	0
TOTAL	289,006	23,450	265,556	113,470	118	113,352
PACIFIC NORTHWEST						
PACIFIC NORTHWEST						
FARM PRODUCTS	5,315,774	4,044,919	1,270,855	5,315,774	4,044,919	1,270,855
MARINE PRODUCTS	39,789	38,776	1,013	39,789	38,776	1,013
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	1,879,088	33,222	1,845,866	1,879,088	33,222	1,845,866
NON-METALLIC MIN. EX. FUELS	8,663,695	8,592,773	70,922	8,663,695	8,592,773	70,922
CHEMICALS & ALLIED PRODUCTS	687,393	180,507	506,886	687,393	180,507	506,886
PETROLEUM & COAL PRODUCTS	9,133,488	592,379	8,541,109	9,133,488	592,379	8,541,109
OTHER	175,833,112	175,388,469	444,643	175,833,112	175,388,469	444,643
TOTAL	201,552,339	188,871,045	12,681,294	201,552,339	188,871,045	12,681,294

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1980

(SHORT TONS)

TOTAL FOR PACIFIC NORTHWEST	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	5,315,774	4,044,919	1,270,855	5,315,774	4,044,919	1,270,855
MARINE PRODUCTS	39,789	38,776	1,013	39,789	38,776	1,013
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	2,125,748	33,222	2,092,526	1,879,088	33,222	1,845,866
NON-METALLIC MIN. EX. FUELS	8,663,695	8,592,773	70,922	8,663,695	8,592,773	70,922
CHEMICALS & ALLIED PRODUCTS	706,673	199,787	506,886	687,427	130,541	506,886
PETROLEUM & COAL PRODUCTS	9,152,384	592,379	8,560,005	9,246,840	592,379	8,654,461
OTHER	175,837,282	175,392,639	444,643	175,833,196	175,388,553	444,643
TOTAL	201,841,345	188,894,495	12,946,850	201,665,809	188,871,163	12,794,646

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1980

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
GREAT LAKES NORTH EASTERN						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	55,033	0	55,033	72,289	0	72,289
OTHER	0	0	0	0	0	0
TOTAL	55,033	0	55,033	72,289	0	72,289
GREAT LAKES ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	120	120	0	0	0	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	147,680	147,680	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	0	0	0	0	0	0
TOTAL	147,800	147,800	0	0	0	0
GREAT LAKES GULF INLAND WATERWAYS						
FARM PRODUCTS	1,632	1,632	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	1,600	1,600	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	537,917	537,917	0
CHEMICALS & ALLIED PRODUCTS	66,079	1,107	64,972	555,607	4,561	551,046
PETROLEUM & COAL PRODUCTS	369,610	19,949	349,661	680,623	16,993	663,630
OTHER	713,344	676,071	37,273	58,603	58,603	0
TOTAL	1,152,265	700,359	451,906	1,832,750	618,074	1,214,676

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1980

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
GREAT LAKES						
LOWER MISSISSIPPI						
FARM PRODUCTS	479,919	478,719	1,200	2,718	2,718	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	6,658	6,658	0	81,136	81,136	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	1,350	1,350	0	119,317	119,317	0
CHEMICALS & ALLIED PRODUCTS	123,382	9,279	114,103	740,637	65,730	674,907
PETROLEUM & COAL PRODUCTS	622,136	195,568	426,568	252,824	98,395	154,429
OTHER	1,498,950	1,334,331	164,619	834,455	804,108	30,347
TOTAL	2,732,395	2,025,905	706,490	2,031,087	1,171,404	859,683
GREAT LAKES						
UPPER MISSISSIPPI						
FARM PRODUCTS	4,382	4,382	0	17,519	17,519	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	4,572,548	4,569,680	2,868
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	833,336	833,336	0	1,154,745	1,154,745	0
CHEMICALS & ALLIED PRODUCTS	44,808	8,277	36,531	398,885	8,879	390,006
PETROLEUM & COAL PRODUCTS	275,641	8,136	267,505	306,823	185,180	121,643
OTHER	1,941,958	468,954	1,473,004	452,051	446,062	5,989
TOTAL	3,100,125	1,323,085	1,777,040	6,902,571	6,382,065	520,506
GREAT LAKES						
OHIO & TRIBUTARIES						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	1,931	1,931	0	11,987	11,987	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	2,250	2,250	0	5,427	5,427	0
CHEMICALS & ALLIED PRODUCTS	6,814	0	6,814	146,529	4,066	142,463
PETROLEUM & COAL PRODUCTS	217,956	49,118	168,838	199,700	87,189	112,511
OTHER	184,926	184,926	0	182,446	182,446	0
TOTAL	413,877	236,225	175,652	546,089	291,115	254,974

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1980

(SHORT TONS)

TOTAL FOR GREAT LAKES	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	485,933	484,733	1,200	20,237	20,237	0
MARINE PRODUCTS	120	120	0	0	0	0
COAL	10,189	10,189	0	4,665,671	4,662,803	2,868
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	984,616	984,616	0	1,817,406	1,817,406	0
CHEMICALS & ALLIED PRODUCTS	241,083	18,663	222,420	1,841,658	83,236	1,758,422
PETROLEUM & COAL PRODUCTS	1,540,376	272,771	1,267,605	1,512,259	387,757	1,124,502
OTHER	4,339,178	2,664,282	1,674,896	1,527,555	1,491,219	36,336
TOTAL	7,601,495	4,435,374	3,166,121	11,384,786	8,462,658	2,922,128

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U.S. INLAND WATERWAYS COMMERCE BY SHIPPING AREA AND TYPE OF VESSEL FOR 1981 *

SHORT TONS

	TOTAL TONS	NORTH EASTERN	ATLANTIC I.W.	GULF I.W.	LOWER MISS.	UPPER MISS.	OHIO & TRIB.	CALIFORNIA	PACIFIC N.W.	GREAT LAKES
DRY	7,929,659	485,086	1,591,380	3,980,601	70,769	45,810	64,062	1,146,349	412,932	132,670
TANK	17,660,765	9,504,862	782,721	1,582,453	120,510	4,628	1,728	4,398,782	1,265,081	0
TOTAL SELF-PROP.	25,590,424	9,989,948	2,374,101	5,563,054	191,279	50,438	65,790	5,545,131	1,678,013	132,670
DRY	351,273,564	7,589,695	14,527,428	40,369,123	40,670,985	79,741,683	131,754,787	2,254,589	30,821,289	3,544,005
TANK	233,766,388	49,495,065	29,798,453	70,819,244	40,047,778	8,054,265	14,850,333	7,072,285	10,156,827	3,472,138
TOTAL NON-SELF-PROP.	585,039,952	57,084,760	44,325,881	111,188,367	80,718,743	87,795,948	146,605,120	9,326,874	40,978,116	7,016,143
TOTAL SHIPPING	610,630,376	67,074,708	46,699,982	116,751,421	80,910,022	87,846,386	146,670,910	14,872,005	42,656,129	7,148,813

* INCLUDES GOVERNMENT MATERIALS TRANSPORTED FOR WATERWAYS IMPROVEMENTS. DOES NOT INCLUDE CARGO CARRIED BY TOWBOATS NOR CARGO CARRIED IN NONCONTIGUOUS AREAS.

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U.S. INLAND WATERWAYS COMMERCE BY RECEIVING AREA AND TYPE OF VESSEL FOR 1981 *

SHORT TONS

	TOTAL TONS	NORTH EASTERN	ATLANTIC I.W.	GULF I.W.	LOWER MISS.	UPPER MISS.	OHIO & TRIB.	CALIFORNIA	PACIFIC N.W.	GREAT LAKES
DRY	7,929,659	476,435	1,730,692	3,845,606	236,106	25,234	49,145	1,146,330	412,951	7,160
TANK	17,660,765	9,440,217	847,366	1,134,845	571,450	0	0	4,398,782	1,265,081	3,024
TOTAL SELF-PROP.	25,590,424	9,916,652	2,578,058	4,980,451	807,556	25,234	49,145	5,545,112	1,678,032	10,184
DRY	351,273,564	8,621,106	15,634,409	38,702,699	127,663,622	20,028,927	98,691,526	2,254,589	30,821,289	8,855,397
TANK	233,766,388	49,139,066	31,118,969	60,076,757	44,053,157	10,895,325	18,694,006	7,072,285	10,156,827	2,559,996
TOTAL NON-SELF-PROP.	585,039,952	57,760,172	46,753,378	98,779,456	171,716,779	30,924,252	117,385,532	9,326,874	40,978,116	11,415,393
TOTAL RECEIVING	610,630,376	67,676,824	49,331,436	103,759,907	172,524,335	30,949,486	117,434,677	14,871,986	42,656,148	11,425,577

* INCLUDES GOVERNMENT MATERIALS TRANSPORTED FOR WATERWAYS IMPROVEMENTS. DOES NOT INCLUDE CARGO CARRIED BY TOWBOATS NOR CARGO CARRIED IN NONCONTIGUOUS AREAS.

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U.S. INLAND WATERWAYS COMMERCE BETWEEN AREAS IN TANK VESSELS FOR 1981 *

SHORT TONS

SHIPPING	RECEIVING									
	TOTAL TONS	NORTH EASTERN	ATLANTIC I.W.	GULF I.W.	LOWER MISS.	UPPER MISS.	OHIO & TRIB.	CALIFORNIA	PACIFIC N.W.	GREAT LAKES
N. EASTERN	58,999,927	55,148,136	3,824,235	0	0	0	0	0	0	27,556
ATL. I.W.	30,581,174	3,431,147	27,150,027	0	0	0	0	0	0	0
GULF I.W.	72,401,697	0	970,473	51,277,623	14,959,421	995,957	3,075,710	0	0	1,122,513
LOWER MISS.	40,168,288	0	21,600	8,619,478	24,729,180	2,940,080	3,036,046	0	0	821,904
UPPER MISS.	8,058,893	0	0	369,646	2,297,836	4,172,458	792,441	0	0	426,512
OHIO & TRIB.	14,852,061	0	0	532,166	1,954,953	571,730	11,628,677	0	0	164,535
CALIFORNIA	11,471,067	0	0	0	0	0	0	11,471,067	0	0
PACIFIC N.W.	11,421,908	0	0	0	0	0	0	0	11,421,908	0
GREAT LAKES	3,472,138	0	0	412,689	683,217	2,215,100	161,132	0	0	0
TOTAL TANK VESSELS	251,427,153	58,579,283	31,966,335	61,211,602	44,624,607	10,895,325	18,694,006	11,471,067	11,421,908	2,563,020

* INCLUDES GOVERNMENT MATERIALS TRANSPORTED FOR WATERWAYS IMPROVEMENTS. DOES NOT INCLUDE CARGO CARRIED BY TOWBOATS NOR CARGO CARRIED IN NONCONTIGUOUS AREAS.

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U.S. INLAND WATERWAYS COMMERCE BETWEEN AREAS IN DRY VESSELS FOR 1981 *

SHORT TONS

SHIPPING	TOTAL TONS	RECEIVING: NORTH EASTERN	ATLANTIC I.W.	GULF I.W.	LOWER MISS.	UPPER MISS.	OHIO & TRIB.	CALIFORNIA	PACIFIC N.W.	GREAT LAKES
N. EASTERN	8,074,781	8,060,886	13,895	0	0	0	0	0	0	0
ATL. I.W.	16,118,808	1,036,655	15,076,018	6,135	0	0	0	0	0	0
GULF I.W.	44,349,724	0	396,529	36,219,491	3,979,922	1,046,893	2,109,224	0	0	597,665
LOWER MISS.	40,741,734	0	30,170	2,783,578	28,706,246	4,053,205	3,901,814	0	0	1,266,721
UPPER MISS.	79,787,493	0	0	976,111	58,914,050	12,556,117	757,985	0	0	6,583,230
OHIO & TRIB.	131,818,849	0	1,720,569	1,831,474	34,462,013	1,615,700	91,774,152	0	0	414,941
CALIFORNIA	3,400,938	0	0	0	0	0	0	3,400,919	19	0
PACIFIC N.W.	31,234,221	0	0	0	0	0	0	0	31,234,221	0
GREAT LAKES	3,676,675	0	127,920	731,516	1,837,497	782,246	197,496	0	0	0
TOTAL DRY VESSELS	359,203,223	9,097,541	17,365,101	42,548,305	127,899,728	20,054,161	98,740,671	3,400,919	31,234,240	8,862,557

* INCLUDES GOVERNMENT MATERIALS TRANSPORTED FOR WATERWAYS IMPROVEMENTS. DOES NOT INCLUDE CARGO CARRIED BY TOWBOATS NOR CARGO CARRIED IN NONCONTIGUOUS AREAS.

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1981

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
NORTH EASTERN						
NORTH EASTERN						
FARM PRODUCTS	105,360	105,360	0	105,360	105,360	0
MARINE PRODUCTS	390,435	390,435	0	390,435	390,435	0
COAL	998,711	998,711	0	998,711	998,711	0
CRUDE PETROLEUM	1,646,830	0	1,646,830	1,646,830	0	1,646,830
NON-METALLIC MIN. EX. FUELS	2,635,464	2,550,464	85,000	2,635,464	2,550,464	85,000
CHEMICALS & ALLIED PRODUCTS	133,525	3,300	130,225	133,525	3,300	130,225
PETROLEUM & COAL PRODUCTS	45,116,224	94,962	45,021,262	45,116,224	94,962	45,021,262
OTHER	12,182,473	3,917,654	8,264,819	12,182,473	3,917,654	8,264,819
TOTAL	63,209,022	8,060,886	55,148,136	63,209,022	8,050,886	55,148,136
NORTH EASTERN						
ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	10,524	10,524	0	1,868	1,868	0
COAL	0	0	0	1,007,213	1,007,213	0
CRUDE PETROLEUM	4,689	0	4,689	1,000,911	0	1,000,911
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	87,449	0	87,449	126,903	18,130	108,773
PETROLEUM & COAL PRODUCTS	3,731,365	1,372	3,729,993	2,309,901	338	2,309,563
OTHER	4,103	1,999	2,104	21,006	9,106	11,900
TOTAL	3,838,130	13,895	3,824,235	4,467,802	1,036,655	3,431,147
NORTH EASTERN						
GREAT LAKES						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	27,556	0	27,556	0	0	0
OTHER	0	0	0	0	0	0
TOTAL	27,556	0	27,556	0	0	0

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1981

(SHORT TONS)

TOTAL FOR NORTH EASTERN	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	105,360	105,360	0	105,360	105,360	0
MARINE PRODUCTS	400,959	400,959	0	392,303	392,303	0
COAL	998,711	998,711	0	2,005,924	2,005,924	0
CRUDE PETROLEUM	1,651,519	0	1,651,519	2,647,741	0	2,647,741
NON-METALLIC MIN. EX. FUELS	2,635,464	2,550,464	85,000	2,635,464	2,550,464	85,000
CHEMICALS & ALLIED PRODUCTS	220,974	3,300	217,674	260,428	21,430	238,998
PETROLEUM & COAL PRODUCTS	48,875,145	96,334	48,778,811	47,426,125	95,300	47,330,825
OTHER	12,186,576	3,919,653	8,266,923	12,203,479	3,926,760	8,276,719
TOTAL	67,074,708	8,074,781	58,999,927	67,676,824	9,097,541	58,579,283

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1981

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
ATLANTIC INLAND WATERWAYS NORTH EASTERN						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	1,868	1,868	0	10,524	10,524	0
COAL	1,007,213	1,007,213	0	0	0	0
CRUDE PETROLEUM	1,000,911	0	1,000,911	4,689	0	4,689
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	126,903	18,130	108,773	87,449	0	87,449
PETROLEUM & COAL PRODUCTS	2,309,901	338	2,309,563	3,731,365	1,372	3,729,993
OTHER	21,006	9,106	11,900	4,103	1,999	2,104
TOTAL	4,467,802	1,036,655	3,431,147	3,838,130	13,895	3,824,235
ATLANTIC INLAND WATERWAYS ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	510,203	510,203	0	510,203	510,203	0
MARINE PRODUCTS	1,336,425	1,336,425	0	1,336,425	1,336,425	0
COAL	4,931,803	4,925,303	6,500	4,931,803	4,925,303	6,500
CRUDE PETROLEUM	3,544,707	0	3,544,707	3,544,707	0	3,544,707
NON-METALLIC MIN. EX. FUELS	5,359,532	4,723,182	636,350	5,359,532	4,723,182	636,350
CHEMICALS & ALLIED PRODUCTS	2,290,410	941,961	1,348,449	2,290,410	941,961	1,348,449
PETROLEUM & COAL PRODUCTS	21,727,326	393,600	21,333,726	21,727,326	393,600	21,333,726
OTHER	2,525,639	2,245,344	280,295	2,525,639	2,245,344	280,295
TOTAL	42,226,045	15,076,018	27,150,027	42,226,045	15,076,018	27,150,027
ATLANTIC INLAND WATERWAYS GULF INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	15	15	0	0	0	0
COAL	0	0	0	395,465	394,024	1,441
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	156,710	0	156,710
PETROLEUM & COAL PRODUCTS	0	0	0	812,322	0	812,322
OTHER	6,120	6,120	0	2,505	2,505	0
TOTAL	6,135	6,135	0	1,367,002	396,529	970,473

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1981

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
ATLANTIC INLAND WATERWAYS LOWER MISSISSIPPI						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	30,170	30,170	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	21,600	0	21,600
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	0	0	0	0	0	0
TOTAL	0	0	0	51,770	30,170	21,600
ATLANTIC INLAND WATERWAYS OHIO & TRIBUTARIES						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	1,720,569	1,720,569	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	0	0	0	0	0	0
TOTAL	0	0	0	1,720,569	1,720,569	0
ATLANTIC INLAND WATERWAYS GREAT LAKES						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	184	184	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	127,736	127,736	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	0	0	0	0	0	0
TOTAL	0	0	0	127,920	127,920	0

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1981

(SHORT TONS)

TOTAL FOR ATLANTIC INLAND WATERWAYS	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	510,203	510,203	0	510,203	510,203	0
MARINE PRODUCTS	1,338,308	1,338,308	0	1,347,133	1,347,133	0
COAL	5,939,016	5,932,516	6,500	7,078,007	7,070,066	7,941
CRUDE PETROLEUM	4,545,618	0	4,545,618	3,549,396	0	3,549,396
NON-METALLIC MIN. EX. FUELS	5,359,532	4,723,182	636,350	5,487,268	4,850,918	636,350
CHEMICALS & ALLIED PRODUCTS	2,417,313	960,091	1,457,222	2,556,169	941,961	1,614,208
PETROLEUM & COAL PRODUCTS	24,037,227	393,938	23,643,289	26,271,013	394,972	25,876,041
OTHER	2,552,765	2,260,570	292,195	2,532,247	2,249,848	282,399
TOTAL	46,699,982	16,118,808	30,581,174	49,331,436	17,365,101	31,966,335

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1981

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
GULF INLAND WATERWAYS						
ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	15	15	0
COAL	395,465	394,024	1,441	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	156,710	0	156,710	0	0	0
PETROLEUM & COAL PRODUCTS	812,322	0	812,322	0	0	0
OTHER	2,505	2,505	0	6,120	6,120	0
TOTAL	1,367,002	396,529	970,473	6,135	6,135	0
GULF INLAND WATERWAYS						
GULF INLAND WATERWAYS						
FARM PRODUCTS	722,743	722,743	0	722,743	722,743	0
MARINE PRODUCTS	7,235,747	7,175,916	59,831	7,235,747	7,175,916	59,831
COAL	9,556,885	9,529,071	27,814	9,556,885	9,529,071	27,814
CRUDE PETROLEUM	14,616,306	49,998	14,566,308	14,616,306	49,998	14,566,308
NON-METALLIC MIN. EX. FUELS	7,615,741	5,801,759	1,813,982	7,615,741	5,801,759	1,813,982
CHEMICALS & ALLIED PRODUCTS	8,312,942	777,780	7,535,162	8,312,942	777,780	7,535,162
PETROLEUM & COAL PRODUCTS	26,967,474	898,521	26,068,953	26,967,474	898,521	26,068,953
OTHER	12,469,276	11,263,703	1,205,573	12,469,276	11,263,703	1,205,573
TOTAL	87,497,114	36,219,491	51,277,623	87,497,114	36,219,491	51,277,623
GULF INLAND WATERWAYS						
LOWER MISSISSIPPI						
FARM PRODUCTS	345,199	343,625	1,574	229,197	229,197	0
MARINE PRODUCTS	650,586	544,686	105,900	1,074	1,074	0
COAL	86,687	86,687	0	422,299	419,179	3,120
CRUDE PETROLEUM	4,649,660	59,870	4,589,790	1,245,269	60,487	1,184,782
NON-METALLIC MIN. EX. FUELS	2,263,673	939,926	1,323,747	270,172	197,146	73,026
CHEMICALS & ALLIED PRODUCTS	2,427,699	495,313	1,932,386	2,241,042	169,017	2,072,025
PETROLEUM & COAL PRODUCTS	7,505,454	555,071	6,950,383	5,471,960	299,123	5,172,837
OTHER	1,010,385	954,744	55,641	1,522,043	1,408,355	113,688
TOTAL	18,939,343	3,979,922	14,959,421	11,403,056	2,783,578	8,619,478

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1981

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
GULF INLAND WATERWAYS						
UPPER MISSISSIPPI						
FARM PRODUCTS	0	0	0	184,665	184,665	0
MARINE PRODUCTS	17,220	17,220	0	0	0	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	890,491	889,007	1,484	185,789	185,789	0
CHEMICALS & ALLIED PRODUCTS	475,604	12,003	463,601	92,285	13,850	78,435
PETROLEUM & COAL PRODUCTS	518,482	8,275	510,207	308,698	44,773	263,925
OTHER	141,053	120,388	20,665	574,320	547,034	27,286
TOTAL	2,042,850	1,046,893	995,957	1,345,757	976,111	369,646
GULF INLAND WATERWAYS						
OHIO & TRIBUTARIES						
FARM PRODUCTS	0	0	0	44,673	44,673	0
MARINE PRODUCTS	13,114	13,114	0	0	0	0
COAL	0	0	0	917,961	916,179	1,782
CRUDE PETROLEUM	4,876	0	4,876	0	0	0
NON-METALLIC MIN. EX. FUELS	865,121	865,121	0	8,493	8,493	0
CHEMICALS & ALLIED PRODUCTS	2,734,431	949,482	1,784,949	331,970	14,948	317,022
PETROLEUM & COAL PRODUCTS	1,346,231	60,346	1,285,885	274,639	69,141	205,498
OTHER	221,161	221,161	0	785,904	778,040	7,864
TOTAL	5,184,934	2,109,224	3,075,710	2,363,640	1,831,474	532,166
GULF INLAND WATERWAYS						
GREAT LAKES						
FARM PRODUCTS	0	0	0	5,897	5,897	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	10,790	0	10,790
NON-METALLIC MIN. EX. FUELS	411,085	411,085	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	524,464	9,176	515,288	71,271	2,578	68,693
PETROLEUM & COAL PRODUCTS	750,794	146,271	604,523	329,711	34,512	295,199
OTHER	33,835	31,133	2,702	726,536	688,529	38,007
TOTAL	1,720,178	597,665	1,122,513	1,144,205	731,516	412,689

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1981

(SHORT TONS)

TOTAL FOR GULF INLAND WATERWAYS	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	1,067,942	1,066,368	1,574	1,187,175	1,187,175	0
MARINE PRODUCTS	7,916,667	7,750,936	165,731	7,236,836	7,177,005	59,831
COAL	10,039,037	10,009,782	29,255	10,897,145	10,864,429	32,716
CRUDE PETROLEUM	19,270,842	109,868	19,160,974	15,872,365	110,485	15,761,880
NON-METALLIC MIN. EX. FUELS	12,046,111	8,906,898	3,139,213	8,080,195	6,193,187	1,887,008
CHEMICALS & ALLIED PRODUCTS	14,631,850	2,243,754	12,388,096	11,049,510	978,173	10,071,337
PETROLEUM & COAL PRODUCTS	37,900,757	1,668,484	36,232,273	33,352,482	1,346,070	32,006,412
OTHER	13,878,215	12,593,634	1,284,581	16,084,199	14,691,781	1,392,418
TOTAL	116,751,421	44,349,724	72,401,697	103,759,907	42,548,305	61,211,602

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1981

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
LOWER MISSISSIPPI						
ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	30,170	30,170	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	21,600	0	21,600	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	0	0	0	0	0	0
TOTAL	51,770	30,170	21,600	0	0	0
LOWER MISSISSIPPI						
GULF INLAND WATERWAYS						
FARM PRODUCTS	229,197	229,197	0	345,199	343,625	1,574
MARINE PRODUCTS	1,074	1,074	0	650,586	544,686	105,900
COAL	422,299	419,179	3,120	86,687	86,687	0
CRUDE PETROLEUM	1,245,269	60,487	1,184,782	4,649,660	59,870	4,589,790
NON-METALLIC MIN. EX. FUELS	270,172	197,146	73,026	2,263,673	939,926	1,323,747
CHEMICALS & ALLIED PRODUCTS	2,241,042	169,017	2,072,025	2,427,699	495,313	1,932,386
PETROLEUM & COAL PRODUCTS	5,471,960	299,123	5,172,837	7,505,454	555,071	6,950,383
OTHER	1,522,043	1,408,355	113,688	1,010,385	954,744	55,641
TOTAL	11,403,056	2,783,578	8,619,478	18,939,343	3,979,922	14,959,421
LOWER MISSISSIPPI						
LOWER MISSISSIPPI						
FARM PRODUCTS	9,753,926	9,747,473	6,453	9,753,926	9,747,473	6,453
MARINE PRODUCTS	600	600	0	600	600	0
COAL	5,297,581	5,291,478	6,103	5,297,581	5,291,478	6,103
CRUDE PETROLEUM	5,371,902	726,298	4,645,604	5,371,902	726,298	4,645,604
NON-METALLIC MIN. EX. FUELS	6,968,507	6,119,230	849,277	6,968,507	6,119,230	849,277
CHEMICALS & ALLIED PRODUCTS	4,760,179	1,274,155	3,486,024	4,760,179	1,274,155	3,486,024
PETROLEUM & COAL PRODUCTS	16,297,647	945,973	15,351,674	16,297,647	945,973	15,351,674
OTHER	4,985,084	4,601,039	384,045	4,985,084	4,601,039	384,045
TOTAL	53,435,426	28,706,246	24,729,180	53,435,426	28,706,246	24,729,180

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1981

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
LOWER MISSISSIPPI UPPER MISSISSIPPI						
FARM PRODUCTS	170,374	170,374	0	41,500,184	41,456,991	43,193
MARINE PRODUCTS	0	0	0	0	0	0
COAL	89,724	89,724	0	9,446,316	9,444,971	1,345
CRUDE PETROLEUM	390,554	0	390,554	45,824	1,600	44,224
NON-METALLIC MIN. EX. FUELS	977,821	977,821	0	491,614	446,962	44,652
CHEMICALS & ALLIED PRODUCTS	3,515,003	2,086,205	1,428,798	228,433	67,807	160,626
PETROLEUM & COAL PRODUCTS	1,004,238	104,903	899,335	2,250,068	623,514	1,626,554
OTHER	845,571	624,178	221,393	7,249,447	6,872,205	377,242
TOTAL	6,993,285	4,053,205	2,940,080	61,211,886	58,914,050	2,297,836
LOWER MISSISSIPPI OHIO & TRIBUTARIES						
FARM PRODUCTS	25,973	25,973	0	4,786,165	4,777,095	9,070
MARINE PRODUCTS	0	0	0	0	0	0
COAL	96,579	96,579	0	25,315,805	25,296,943	18,862
CRUDE PETROLEUM	61,553	0	61,553	0	0	0
NON-METALLIC MIN. EX. FUELS	299,078	299,078	0	1,096,630	1,096,630	0
CHEMICALS & ALLIED PRODUCTS	3,362,380	1,952,387	1,409,993	175,115	27,113	148,002
PETROLEUM & COAL PRODUCTS	1,676,892	161,760	1,515,132	1,925,373	285,764	1,639,609
OTHER	1,415,405	1,366,037	49,368	3,117,878	2,978,468	139,410
TOTAL	6,937,860	3,901,814	3,036,046	36,416,966	34,462,013	1,954,953
LOWER MISSISSIPPI GREAT LAKES						
FARM PRODUCTS	45,793	45,793	0	712,315	710,899	1,416
MARINE PRODUCTS	0	0	0	0	0	0
COAL	74,065	74,065	0	12,437	12,437	0
CRUDE PETROLEUM	10,978	0	10,978	0	0	0
NON-METALLIC MIN. EX. FUELS	128,449	128,449	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	649,565	48,036	601,529	75,409	15,158	60,251
PETROLEUM & COAL PRODUCTS	538,398	373,909	164,489	548,766	69,300	479,466
OTHER	641,377	596,469	44,908	1,171,787	1,029,703	142,084
TOTAL	2,088,625	1,266,721	821,904	2,520,714	1,837,497	683,217

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1981

(SHORT TONS)

TOTAL FOR LOWER MISSISSIPPI	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	10,225,263	10,218,810	6,453	57,097,789	57,036,083	61,706
MARINE PRODUCTS	1,674	1,674	0	651,186	545,286	105,900
COAL	6,010,418	6,001,195	9,223	40,158,826	40,132,516	26,310
CRUDE PETROLEUM	7,080,256	786,785	6,293,471	10,067,386	787,768	9,279,618
NON-METALLIC MIN. EX. FUELS	8,644,027	7,721,724	922,303	10,820,424	8,602,748	2,217,676
CHEMICALS & ALLIED PRODUCTS	14,549,769	5,529,800	9,019,969	7,666,835	1,879,546	5,787,289
PETROLEUM & COAL PRODUCTS	24,989,135	1,885,668	23,103,467	28,527,308	2,479,622	26,047,686
OTHER	9,409,480	8,596,078	813,402	17,534,581	16,436,159	1,098,422
TOTAL	80,910,022	40,741,734	40,168,288	172,524,335	127,899,728	44,624,607

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1981

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
UPPER MISSISSIPPI						
GULF INLAND WATERWAYS						
FARM PRODUCTS	184,665	184,665	0	0	0	0
MARINE PRODUCTS	0	0	0	17,220	17,220	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	185,789	185,789	0	890,491	889,007	1,484
CHEMICALS & ALLIED PRODUCTS	92,285	13,850	78,435	475,604	12,003	463,601
PETROLEUM & COAL PRODUCTS	308,698	44,773	263,925	518,482	8,275	510,207
OTHER	574,320	547,034	27,286	141,053	120,388	20,665
TOTAL	1,345,757	976,111	369,646	2,042,850	1,046,893	995,957
UPPER MISSISSIPPI						
LOWER MISSISSIPPI						
FARM PRODUCTS	41,500,184	41,456,991	43,193	170,374	170,374	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	9,446,316	9,444,971	1,345	89,724	89,724	0
CRUDE PETROLEUM	45,824	1,600	44,224	390,554	0	390,554
NON-METALLIC MIN. EX. FUELS	491,614	446,962	44,652	977,821	977,821	0
CHEMICALS & ALLIED PRODUCTS	228,433	67,807	160,626	3,515,003	2,086,205	1,428,798
PETROLEUM & COAL PRODUCTS	2,250,068	623,514	1,626,554	1,004,238	104,903	899,335
OTHER	7,249,447	6,872,205	377,242	845,571	624,178	221,393
TOTAL	61,211,886	58,914,050	2,297,836	6,993,285	4,053,205	2,940,080
UPPER MISSISSIPPI						
UPPER MISSISSIPPI						
FARM PRODUCTS	243,252	243,252	0	243,252	243,252	0
MARINE PRODUCTS	259	259	0	259	259	0
COAL	5,876,875	5,869,856	7,019	5,876,875	5,869,856	7,019
CRUDE PETROLEUM	266,367	19,649	246,718	266,367	19,649	246,718
NON-METALLIC MIN. EX. FUELS	5,248,519	5,248,519	0	5,248,519	5,248,519	0
CHEMICALS & ALLIED PRODUCTS	880,428	83,446	796,982	880,428	83,446	796,982
PETROLEUM & COAL PRODUCTS	3,248,936	141,701	3,107,235	3,248,936	141,701	3,107,235
OTHER	963,939	949,435	14,504	963,939	949,435	14,504
TOTAL	16,728,575	12,556,117	4,172,458	16,728,575	12,556,117	4,172,458

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1981

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
UPPER MISSISSIPPI OHIO & TRIBUTARIES						
FARM PRODUCTS	261,210	259,924	1,286	2,760	2,760	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	4,742	4,742	0	1,376,323	1,376,323	0
CRUDE PETROLEUM	7,444	0	7,444	6,758	0	6,758
NON-METALLIC MIN. EX. FUELS	36,586	36,586	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	212,287	19,776	192,511	69,122	3,311	65,811
PETROLEUM & COAL PRODUCTS	602,810	40,759	562,051	465,266	36,208	429,058
OTHER	425,347	396,198	29,149	267,201	197,098	70,103
TOTAL	1,550,426	757,985	792,441	2,187,430	1,615,700	571,730
UPPER MISSISSIPPI GREAT LAKES						
FARM PRODUCTS	150,599	150,599	0	4,199	4,199	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	4,563,078	4,558,597	4,481	2,831	2,831	0
CRUDE PETROLEUM	0	0	0	21,448	0	21,448
NON-METALLIC MIN. EX. FUELS	1,018,073	1,018,073	0	352,063	352,063	0
CHEMICALS & ALLIED PRODUCTS	233,674	13,239	220,435	40,709	0	40,709
PETROLEUM & COAL PRODUCTS	479,817	280,166	199,651	350,141	9,531	340,610
OTHER	564,501	562,556	1,945	2,225,955	413,622	1,812,333
TOTAL	7,009,742	6,583,230	426,512	2,997,346	782,246	2,215,100

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1981

(SHORT TONS)

TOTAL FOR UPPER MISSISSIPPI	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	42,339,910	42,295,431	44,479	420,585	420,585	0
MARINE PRODUCTS	259	259	0	17,479	17,479	0
COAL	19,891,011	19,878,166	12,845	7,345,753	7,338,734	7,019
CRUDE PETROLEUM	319,635	21,249	298,386	685,127	19,649	665,478
NON-METALLIC MIN. EX. FUELS	6,980,581	6,935,929	44,652	7,468,894	7,467,410	1,484
CHEMICALS & ALLIED PRODUCTS	1,647,107	198,118	1,448,989	4,980,866	2,184,965	2,795,901
PETROLEUM & COAL PRODUCTS	6,890,329	1,130,913	5,759,416	5,587,063	300,618	5,286,445
OTHER	9,777,554	9,327,428	450,126	4,443,719	2,304,721	2,138,998
TOTAL	87,846,386	79,787,493	8,058,893	30,949,486	20,054,161	10,895,325

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1981

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
OHIO & TRIBUTARIES ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	1,720,569	1,720,569	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	0	0	0	0	0	0
TOTAL	1,720,569	1,720,569	0	0	0	0
OHIO & TRIBUTARIES GULF INLAND WATERWAYS						
FARM PRODUCTS	44,673	44,673	0	0	0	0
MARINE PRODUCTS	0	0	0	13,114	13,114	0
COAL	917,961	916,179	1,782	0	0	0
CRUDE PETROLEUM	0	0	0	4,876	0	4,876
NON-METALLIC MIN. EX. FUELS	8,493	8,493	0	865,121	865,121	0
CHEMICALS & ALLIED PRODUCTS	331,970	14,948	317,022	2,734,431	949,482	1,784,949
PETROLEUM & COAL PRODUCTS	274,639	69,141	205,498	1,346,231	60,346	1,285,885
OTHER	785,904	778,040	7,864	221,161	221,161	0
TOTAL	2,363,640	1,831,474	532,166	5,184,934	2,109,224	3,075,710
OHIO & TRIBUTARIES LOWER MISSISSIPPI						
FARM PRODUCTS	4,786,165	4,777,095	9,070	25,973	25,973	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	25,315,805	25,296,943	18,862	96,579	96,579	0
CRUDE PETROLEUM	0	0	0	61,553	0	61,553
NON-METALLIC MIN. EX. FUELS	1,096,630	1,096,630	0	299,078	299,078	0
CHEMICALS & ALLIED PRODUCTS	175,115	27,113	148,002	3,362,380	1,952,387	1,409,993
PETROLEUM & COAL PRODUCTS	1,925,373	285,764	1,639,609	1,676,892	161,760	1,515,132
OTHER	3,117,878	2,978,468	139,410	1,415,405	1,366,037	49,368
TOTAL	36,416,966	34,462,013	1,954,953	6,937,860	3,901,814	3,036,046

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1981

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
OHIO & TRIBUTARIES						
UPPER MISSISSIPPI						
FARM PRODUCTS	2,760	2,760	0	261,210	259,924	1,286
MARINE PRODUCTS	0	0	0	0	0	0
COAL	1,376,323	1,376,323	0	4,742	4,742	0
CRUDE PETROLEUM	6,758	0	6,758	7,444	0	7,444
NON-METALLIC MIN. EX. FUELS	0	0	0	36,586	36,586	0
CHEMICALS & ALLIED PRODUCTS	69,122	3,311	65,811	212,287	19,776	192,511
PETROLEUM & COAL PRODUCTS	465,266	36,208	429,058	602,810	40,759	562,051
OTHER	267,201	197,098	70,103	425,347	396,198	29,149
TOTAL	2,187,430	1,615,700	571,730	1,550,426	757,985	792,441
OHIO & TRIBUTARIES						
OHIO & TRIBUTARIES						
FARM PRODUCTS	90,653	90,653	0	90,653	90,653	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	75,262,435	75,227,348	35,087	75,262,435	75,227,348	35,087
CRUDE PETROLEUM	65,429	1,399	64,030	65,429	1,399	64,030
NON-METALLIC MIN. EX. FUELS	13,695,101	13,694,303	798	13,695,101	13,694,303	798
CHEMICALS & ALLIED PRODUCTS	2,076,699	45,652	2,031,047	2,076,699	45,652	2,031,047
PETROLEUM & COAL PRODUCTS	9,606,976	159,495	9,447,481	9,606,976	159,495	9,447,481
OTHER	2,605,536	2,555,302	50,234	2,605,536	2,555,302	50,234
TOTAL	103,402,829	91,774,152	11,628,677	103,402,829	91,774,152	11,628,677
OHIO & TRIBUTARIES						
GREAT LAKES						
FARM PRODUCTS	4,356	4,356	0	1,451	1,451	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	89,737	89,737	0	1,242	0	1,242
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	1,400	1,400	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	105,709	600	105,109	20,231	3,002	17,229
PETROLEUM & COAL PRODUCTS	236,127	176,701	59,426	192,135	50,919	141,216
OTHER	142,147	142,147	0	143,569	142,124	1,445
TOTAL	579,476	414,941	164,535	358,628	197,496	161,132

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1981

(SHORT TONS)

TOTAL FOR OHIO & TRIBUTARIES	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	4,928,607	4,919,537	9,070	379,287	378,001	1,286
MARINE PRODUCTS	0	0	0	13,114	13,114	0
COAL	104,682,830	104,627,099	55,731	75,364,998	75,328,669	36,329
CRUDE PETROLEUM	72,187	1,399	70,788	139,302	1,399	137,903
NON-METALLIC MIN. EX. FUELS	14,801,624	14,800,826	798	14,895,886	14,895,088	798
CHEMICALS & ALLIED PRODUCTS	2,758,615	91,624	2,666,991	8,406,028	2,970,299	5,435,729
PETROLEUM & COAL PRODUCTS	12,508,381	727,309	11,781,072	13,425,044	473,279	12,951,765
OTHER	6,918,666	6,651,055	267,611	4,811,018	4,680,822	130,196
TOTAL	146,670,910	131,818,849	14,852,061	117,434,677	98,740,671	18,694,006

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1981

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
CALIFORNIA						
CALIFORNIA						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	823,714	823,714	0	823,714	823,714	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	4,645,207	648,604	3,996,603	4,645,207	648,604	3,996,603
NON-METALLIC MIN. EX. FUELS	735,802	735,802	0	735,802	735,802	0
CHEMICALS & ALLIED PRODUCTS	17,260	0	17,260	17,260	0	17,260
PETROLEUM & COAL PRODUCTS	8,252,082	811,270	7,440,812	8,252,082	811,270	7,440,812
OTHER	397,921	381,529	16,392	397,921	381,529	16,392
TOTAL	14,871,986	3,400,919	11,471,067	14,871,986	3,400,919	11,471,067
CALIFORNIA						
PACIFIC NORTHWEST						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	19	19	0	0	0	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	0	0	0	0	0	0
TOTAL	19	19	0	0	0	0

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1981

(SHORT TONS)

TOTAL FOR CALIFORNIA	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	823,733	823,733	0	823,714	823,714	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	4,645,207	648,604	3,996,603	4,645,207	648,604	3,996,603
NON-METALLIC MIN. EX. FUELS	735,802	735,802	0	735,802	735,802	0
CHEMICALS & ALLIED PRODUCTS	17,260	0	17,260	17,260	0	17,260
PETROLEUM & COAL PRODUCTS	8,252,082	811,270	7,440,812	8,252,082	811,270	7,440,812
OTHER	397,921	381,529	16,392	397,921	381,529	16,392
TOTAL	14,872,005	3,400,938	11,471,067	14,871,986	3,400,919	11,471,067

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1981

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
PACIFIC NORTHWEST						
CALIFORNIA						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	19	19	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	0	0	0	0	0	0
TOTAL	0	0	0	19	19	0
PACIFIC NORTHWEST						
PACIFIC NORTHWEST						
FARM PRODUCTS	6,210,227	4,591,165	1,619,062	6,210,227	4,591,165	1,619,062
MARINE PRODUCTS	267,041	266,697	344	267,041	266,697	344
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	1,687,646	0	1,687,646	1,687,646	0	1,687,646
NON-METALLIC MIN. EX. FUELS	6,329,575	6,216,138	113,437	6,329,575	6,216,138	113,437
CHEMICALS & ALLIED PRODUCTS	517,852	209,078	308,774	517,852	209,078	308,774
PETROLEUM & COAL PRODUCTS	7,755,220	546,150	7,209,070	7,755,220	546,150	7,209,070
OTHER	19,888,568	19,404,993	483,575	19,888,568	19,404,993	483,575
TOTAL	42,656,129	31,234,221	11,421,908	42,656,129	31,234,221	11,421,908

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1981

(SHORT TONS)

TOTAL FOR PACIFIC NORTHWEST	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	6,210,227	4,591,165	1,619,062	6,210,227	4,591,165	1,619,062
MARINE PRODUCTS	267,041	266,697	344	267,060	266,716	344
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	1,687,646	0	1,687,646	1,687,646	0	1,687,646
NON-METALLIC MIN. EX. FUELS	6,329,575	6,216,138	113,437	6,329,575	6,216,138	113,437
CHEMICALS & ALLIED PRODUCTS	517,852	209,078	308,774	517,852	209,078	308,774
PETROLEUM & COAL PRODUCTS	7,755,220	546,150	7,209,070	7,755,220	546,150	7,209,070
OTHER	19,888,568	19,404,993	483,575	19,888,568	19,404,993	483,575
TOTAL	42,656,129	31,234,221	11,421,908	42,656,148	31,234,240	11,421,908

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1981

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
GREAT LAKES						
NORTH EASTERN						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	27,556	0	27,556
OTHER	0	0	0	0	0	0
TOTAL	0	0	0	27,556	0	27,556
GREAT LAKES						
ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	184	184	0	0	0	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	127,736	127,736	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	0	0	0	0	0	0
TOTAL	127,920	127,920	0	0	0	0
GREAT LAKES						
GULF INLAND WATERWAYS						
FARM PRODUCTS	5,897	5,897	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	10,790	0	10,790	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	411,085	411,085	0
CHEMICALS & ALLIED PRODUCTS	71,271	2,578	68,693	524,464	9,176	515,288
PETROLEUM & COAL PRODUCTS	329,711	34,512	295,199	750,794	146,271	604,523
OTHER	726,536	688,529	38,007	33,835	31,133	2,702
TOTAL	1,144,205	731,516	412,689	1,720,178	597,665	1,122,513

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1981

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
GREAT LAKES						
LOWER MISSISSIPPI						
FARM PRODUCTS	712,315	710,899	1,416	45,793	45,793	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	12,437	12,437	0	74,065	74,065	0
CRUDE PETROLEUM	0	0	0	10,978	0	10,978
NON-METALLIC MIN. EX. FUELS	0	0	0	128,449	128,449	0
CHEMICALS & ALLIED PRODUCTS	75,409	15,158	60,251	649,565	48,036	601,529
PETROLEUM & COAL PRODUCTS	548,766	69,300	479,466	538,398	373,909	164,489
OTHER	1,171,787	1,029,703	142,084	641,377	596,469	44,908
TOTAL	2,520,714	1,837,497	683,217	2,088,625	1,266,721	821,904
GREAT LAKES						
UPPER MISSISSIPPI						
FARM PRODUCTS	4,199	4,199	0	150,599	150,599	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	2,831	2,831	0	4,563,078	4,558,597	4,481
CRUDE PETROLEUM	21,448	0	21,448	0	0	0
NON-METALLIC MIN. EX. FUELS	352,063	352,063	0	1,018,073	1,018,073	0
CHEMICALS & ALLIED PRODUCTS	40,709	0	40,709	233,674	13,239	220,435
PETROLEUM & COAL PRODUCTS	350,141	9,531	340,610	479,817	280,166	199,651
OTHER	2,225,955	413,622	1,812,333	564,501	562,556	1,945
TOTAL	2,997,346	782,246	2,215,100	7,009,742	6,583,230	426,512
GREAT LAKES						
OHIO & TRIBUTARIES						
FARM PRODUCTS	1,451	1,451	0	4,356	4,356	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	1,242	0	1,242	89,737	89,737	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	1,400	1,400	0
CHEMICALS & ALLIED PRODUCTS	20,231	3,002	17,229	105,709	600	105,109
PETROLEUM & COAL PRODUCTS	192,135	50,919	141,216	236,127	176,701	59,426
OTHER	143,569	142,124	1,445	142,147	142,147	0
TOTAL	358,628	197,496	161,132	579,476	414,941	164,535

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1981

(SHORT TONS)

TOTAL FOR GREAT LAKES	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	723,862	722,446	1,416	200,748	200,748	0
MARINE PRODUCTS	184	184	0	0	0	0
COAL	16,510	15,268	1,242	4,726,880	4,722,399	4,481
CRUDE PETROLEUM	32,238	0	32,238	10,978	0	10,978
NON-METALLIC MIN. EX. FUELS	479,799	479,799	0	1,559,007	1,559,007	0
CHEMICALS & ALLIED PRODUCTS	207,620	20,738	186,882	1,513,412	71,051	1,442,361
PETROLEUM & COAL PRODUCTS	1,420,753	164,262	1,256,491	2,032,692	977,047	1,055,645
OTHER	4,267,847	2,273,978	1,993,869	1,381,860	1,332,305	49,555
TOTAL	7,148,813	3,676,675	3,472,138	11,425,577	8,862,557	2,563,020

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U.S. INLAND WATERWAYS COMMERCE BY SHIPPING AREA AND TYPE OF VESSEL FOR 1982 *

SHORT TONS

	TOTAL TONS	NORTH EASTERN	ATLANTIC I.W.	GULF I.W.	LOWER MISS.	UPPER MISS.	OHIO & TRIB.	CALIFORNIA	PACIFIC N.W.	GREAT LAKES
DRY	6,035,540	481,401	1,174,857	3,101,056	50,241	36,395	18,877	796,925	263,689	112,099
TANK	13,340,148	8,429,254	211,921	144,730	113,022	1,415	1,543	2,854,321	1,583,942	0
TOTAL SELF-PROP.	19,375,688	8,910,655	1,386,778	3,245,786	163,263	37,810	20,420	3,651,246	1,847,631	112,099
DRY	335,357,254	7,694,338	11,658,956	36,636,442	38,709,660	78,466,511	126,152,326	4,293,947	28,638,428	3,106,646
TANK	213,431,318	43,779,233	24,535,925	64,635,340	36,688,137	7,861,285	13,824,356	8,438,579	10,634,241	3,034,222
TOTAL NON-SELF-PROP.	548,788,572	51,473,571	36,194,881	101,271,782	75,397,797	86,327,796	139,976,682	12,732,526	39,272,669	6,140,868
TOTAL SHIPPING	568,164,260	60,384,226	37,581,659	104,517,568	75,561,060	86,365,606	139,997,102	16,383,772	41,120,300	6,252,967

* INCLUDES GOVERNMENT MATERIALS TRANSPORTED FOR WATERWAYS IMPROVEMENTS. DOES NOT INCLUDE CARGO CARRIED BY TOWBOATS NOR CARGO CARRIED IN NONCONTIGUOUS AREAS.

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U.S. INLAND WATERWAYS COMMERCE BY RECEIVING AREA AND TYPE OF VESSEL FOR 1982 *

SHORT TONS

	TOTAL TONS	NORTH EASTERN	ATLANTIC I.W.	GULF I.W.	LOWER MISS.	UPPER MISS.	OHIO & TRIB.	CALIFORNIA	PACIFIC N.W.	GREAT LAKES
DRY	6,035,540	475,583	1,294,146	2,993,277	158,135	25,051	15,211	796,925	263,689	13,523
TANK	13,340,148	8,429,784	211,391	60,779	198,235	1,415	281	2,854,321	1,583,942	0
TOTAL SELF-PROP.	19,375,688	8,905,367	1,505,537	3,054,056	356,370	26,466	15,492	3,651,246	1,847,631	13,523
DRY	335,357,254	8,861,531	11,887,336	34,178,516	125,942,778	20,585,559	93,547,405	4,293,947	28,638,428	7,421,754
TANK	213,431,318	43,675,171	25,358,494	54,221,194	41,512,571	9,833,838	17,312,946	8,438,579	10,634,241	2,444,284
TOTAL NON-SELF-PROP.	548,788,572	52,536,702	37,245,830	88,399,710	167,455,349	30,419,397	110,860,351	12,732,526	39,272,669	9,866,038
TOTAL RECEIVING	568,164,260	61,442,069	38,751,367	91,453,766	167,811,719	30,445,863	110,875,843	16,383,772	41,120,300	9,879,561

* INCLUDES GOVERNMENT MATERIALS TRANSPORTED FOR WATERWAYS IMPROVEMENTS. DOES NOT INCLUDE CARGO CARRIED BY TOWBOATS NOR CARGO CARRIED IN NONCONTIGUOUS AREAS.

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U.S. INLAND WATERWAYS COMMERCE BETWEEN AREAS IN TANK VESSELS FOR 1982 *

SHORT TONS

SHIPPING	TOTAL TONS	RECEIVING: NORTH EASTERN	ATLANTIC I.W.	GULF I.W.	LOWER MISS.	UPPER MISS.	OHIO & TRIB.	CALIFORNIA	PACIFIC N.W.	GREAT LAKES
N. EASTERN	52,208,487	49,107,503	3,077,320	0	0	0	0	0	0	23,664
ATL. I.W.	24,747,846	2,995,089	21,752,757	0	0	0	0	0	0	0
GULF I.W.	64,780,070	0	700,208	44,312,148	15,258,630	1,020,639	2,628,258	0	0	860,187
LOWER MISS.	36,801,159	0	39,600	8,886,823	21,826,034	2,778,903	2,549,001	0	0	720,798
UPPER MISS.	7,862,700	0	0	511,623	2,094,814	3,578,728	1,007,100	0	0	670,435
OHIO & TRIB.	13,825,899	0	0	391,446	1,700,430	578,280	10,986,543	0	0	169,200
CALIFORNIA	11,292,900	0	0	0	0	0	0	11,292,900	0	0
PACIFIC N.W.	12,218,183	0	0	0	0	0	0	0	12,218,183	0
GREAT LAKES	3,034,222	2,363	0	179,933	830,898	1,878,703	142,325	0	0	0
TOTAL TANK VESSELS	226,771,466	52,104,955	25,569,885	54,281,973	41,710,806	9,835,253	17,313,227	11,292,900	12,218,183	2,444,284

* INCLUDES GOVERNMENT MATERIALS TRANSPORTED FOR WATERWAYS IMPROVEMENTS. DOES NOT INCLUDE CARGO CARRIED BY TOWBOATS NOR CARGO CARRIED IN NONCONTIGUOUS AREAS.

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U.S. INLAND WATERWAYS COMMERCE BETWEEN AREAS IN DRY VESSELS FOR 1982 *

SHORT TONS

SHIPPING	TOTAL TONS	RECEIVING: NORTH EASTERN	ATLANTIC I.W.	GULF I.W.	LOWER MISS.	UPPER MISS.	OHIO & TRIB.	CALIFORNIA	PACIFIC N.W.	GREAT LAKES
N. EASTERN	8,175,739	8,165,460	9,579	700	0	0	0	0	0	0
ATL. I.W.	12,833,813	1,171,654	11,657,605	4,554	0	0	0	0	0	0
GULF I.W.	39,737,498	0	151,528	31,926,437	3,214,409	1,315,792	2,308,906	0	0	820,426
LOWER MISS.	38,759,901	0	14,694	2,125,258	29,883,098	2,663,826	3,021,466	0	0	1,051,559
UPPER MISS.	78,502,906	0	0	703,552	58,254,741	13,461,058	888,789	0	0	5,194,766
OHIO & TRIB.	126,171,203	0	1,238,727	1,951,548	33,057,531	2,344,105	87,210,766	0	0	368,526
CALIFORNIA	5,090,872	0	0	0	0	0	0	5,090,872	0	0
PACIFIC N.W.	28,902,117	0	0	0	0	0	0	0	28,902,117	0
GREAT LAKES	3,218,745	0	109,349	459,744	1,691,134	825,829	132,689	0	0	0
TOTAL DRY VESSELS	341,392,794	9,337,114	13,181,482	37,171,793	126,100,913	20,610,610	93,562,616	5,090,872	28,902,117	7,435,277

* INCLUDES GOVERNMENT MATERIALS TRANSPORTED FOR WATERWAYS IMPROVEMENTS. DOES NOT INCLUDE CARGO CARRIED BY TOWBOATS NOR CARGO CARRIED IN NONCONTIGUOUS AREAS.

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1982

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
NORTH EASTERN						
NORTH EASTERN						
FARM PRODUCTS	82,202	82,202	0	82,202	82,202	0
MARINE PRODUCTS	304,063	304,063	0	304,063	304,063	0
COAL	927,860	927,860	0	927,860	927,860	0
CRUDE PETROLEUM	889,278	0	889,278	889,278	0	889,278
NON-METALLIC MIN. EX. FUELS	3,035,261	2,995,585	39,676	3,035,261	2,995,585	39,676
CHEMICALS & ALLIED PRODUCTS	68,847	2,501	66,346	68,847	2,501	66,346
PETROLEUM & COAL PRODUCTS	40,343,914	164,463	40,179,451	40,343,914	164,463	40,179,451
OTHER	11,621,538	3,688,786	7,932,752	11,621,538	3,688,786	7,932,752
TOTAL	57,272,963	8,165,460	49,107,503	57,272,963	8,165,460	49,107,503
NORTH EASTERN						
ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	7,595	7,595	0	1,777	1,777	0
COAL	0	0	0	1,130,020	1,130,020	0
CRUDE PETROLEUM	0	0	0	902,543	0	902,543
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	61,519	0	61,519	108,722	30,957	77,765
PETROLEUM & COAL PRODUCTS	3,015,060	84	3,014,976	2,012,743	2,332	2,010,411
OTHER	2,725	1,900	825	10,938	6,568	4,370
TOTAL	3,086,399	9,579	3,077,320	4,166,743	1,171,654	2,995,089
NORTH EASTERN						
GULF INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	700	700	0	0	0	0
TOTAL	700	700	0	0	0	0

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1982

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
NORTH EASTERN GREAT LAKES						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	23,664	0	23,664	2,363	0	2,363
OTHER	0	0	0	0	0	0
TOTAL	23,664	0	23,664	2,363	0	2,363

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1982

(SHORT TONS)

TOTAL FOR NORTH EASTERN	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	82,202	82,202	0	82,202	82,202	0
MARINE PRODUCTS	311,658	311,658	0	305,840	305,840	0
COAL	927,860	927,860	0	2,057,880	2,057,880	0
CRUDE PETROLEUM	889,278	0	889,278	1,791,821	0	1,791,821
NON-METALLIC MIN. EX. FUELS	3,035,261	2,995,585	39,676	3,035,261	2,995,585	39,676
CHEMICALS & ALLIED PRODUCTS	130,366	2,501	127,865	177,569	33,458	144,111
PETROLEUM & COAL PRODUCTS	43,382,638	164,547	43,218,091	42,359,020	166,795	42,192,225
OTHER	11,624,963	3,691,386	7,933,577	11,632,476	3,695,354	7,937,122
TOTAL	60,384,226	8,175,739	52,208,487	61,442,069	9,337,114	52,104,955

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1982

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
ATLANTIC INLAND WATERWAYS NORTH EASTERN						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	1,777	1,777	0	7,595	7,595	0
COAL	1,130,020	1,130,020	0	0	0	0
CRUDE PETROLEUM	902,543	0	902,543	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	108,722	30,957	77,765	61,519	0	61,519
PETROLEUM & COAL PRODUCTS	2,012,743	2,332	2,010,411	3,015,060	84	3,014,976
OTHER	10,938	6,568	4,370	2,725	1,900	825
TOTAL	4,166,743	1,171,654	2,995,089	3,086,899	9,579	3,077,320
ATLANTIC INLAND WATERWAYS ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	397,066	397,066	0	397,066	397,066	0
MARINE PRODUCTS	1,224,255	1,224,255	0	1,224,255	1,224,255	0
COAL	2,139,001	2,139,001	0	2,139,001	2,139,001	0
CRUDE PETROLEUM	5,249,384	0	5,249,384	5,249,384	0	5,249,384
NON-METALLIC MIN. EX. FUELS	5,387,685	4,752,435	635,250	5,387,685	4,752,435	635,250
CHEMICALS & ALLIED PRODUCTS	1,874,021	989,078	884,943	1,874,021	989,078	884,943
PETROLEUM & COAL PRODUCTS	15,003,780	133,504	14,870,276	15,003,780	133,504	14,870,276
OTHER	2,135,170	2,022,266	112,904	2,135,170	2,022,266	112,904
TOTAL	33,410,362	11,657,605	21,752,757	33,410,362	11,657,605	21,752,757
ATLANTIC INLAND WATERWAYS GULF INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	614	614	0	0	0	0
COAL	0	0	0	146,749	146,749	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	350	350	0	137,334	1,370	135,964
PETROLEUM & COAL PRODUCTS	200	200	0	564,244	0	564,244
OTHER	3,390	3,390	0	3,409	3,409	0
TOTAL	4,554	4,554	0	851,736	151,528	700,208

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1982

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
ATLANTIC INLAND WATERWAYS LOWER MISSISSIPPI						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	14,694	14,694	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	39,600	0	39,600
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	0	0	0	0	0	0
TOTAL	0	0	0	54,294	14,694	39,600
ATLANTIC INLAND WATERWAYS OHIO & TRIBUTARIES						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	1,238,727	1,238,727	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	0	0	0	0	0	0
TOTAL	0	0	0	1,238,727	1,238,727	0
ATLANTIC INLAND WATERWAYS GREAT LAKES						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	268	268	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	109,081	109,081	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	0	0	0	0	0	0
TOTAL	0	0	0	109,349	109,349	0

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1982

(SHORT TONS)

TOTAL FOR ATLANTIC INLAND WATERWAYS	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	397,066	397,066	0	397,066	397,066	0
MARINE PRODUCTS	1,226,646	1,226,646	0	1,232,118	1,232,118	0
COAL	3,269,021	3,269,021	0	3,539,171	3,539,171	0
CRUDE PETROLEUM	6,151,927	0	6,151,927	5,249,384	0	5,249,384
NON-METALLIC MIN. EX. FUELS	5,387,685	4,752,435	635,250	5,496,766	4,861,516	635,250
CHEMICALS & ALLIED PRODUCTS	1,983,093	1,020,385	962,708	2,112,474	990,448	1,122,026
PETROLEUM & COAL PRODUCTS	17,016,723	136,036	16,880,687	18,583,084	133,588	18,449,496
OTHER	2,149,498	2,032,224	117,274	2,141,304	2,027,575	113,729
TOTAL	37,581,659	12,833,813	24,747,846	38,751,367	13,181,482	25,569,885

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1982

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
GULF INLAND WATERWAYS						
NORTH EASTERN						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	0	0	0	700	700	0
TOTAL	0	0	0	700	700	0
GULF INLAND WATERWAYS						
ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	614	614	0
COAL	146,749	146,749	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	137,334	1,370	135,964	350	350	0
PETROLEUM & COAL PRODUCTS	564,244	0	564,244	200	200	0
OTHER	3,409	3,409	0	3,390	3,390	0
TOTAL	851,736	151,528	700,208	4,554	4,554	0
GULF INLAND WATERWAYS						
GULF INLAND WATERWAYS						
FARM PRODUCTS	734,554	734,554	0	734,554	734,554	0
MARINE PRODUCTS	5,543,357	5,468,817	74,540	5,543,357	5,468,817	74,540
COAL	10,734,883	10,730,601	4,282	10,734,883	10,730,601	4,282
CRUDE PETROLEUM	12,659,295	52,341	12,606,954	12,659,295	52,341	12,606,954
NON-METALLIC MIN. EX. FUELS	6,620,663	5,499,766	1,120,897	6,620,663	5,499,766	1,120,897
CHEMICALS & ALLIED PRODUCTS	7,621,961	630,089	6,991,872	7,621,961	630,089	6,991,872
PETROLEUM & COAL PRODUCTS	23,215,652	562,163	22,653,489	23,215,652	562,163	22,653,489
OTHER	9,108,220	8,248,106	860,114	9,108,220	8,248,106	860,114
TOTAL	76,238,585	31,926,437	44,312,148	76,238,585	31,926,437	44,312,148

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1982

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
GULF INLAND WATERWAYS LOWER MISSISSIPPI						
FARM PRODUCTS	330,624	330,624	0	199,699	199,699	0
MARINE PRODUCTS	646,178	522,578	123,600	808	808	0
COAL	29,886	29,886	0	311,804	311,804	0
CRUDE PETROLEUM	4,565,390	17,999	4,547,391	1,850,554	19,486	1,831,068
NON-METALLIC MIN. EX. FUELS	1,485,576	643,285	842,291	482,367	444,290	38,077
CHEMICALS & ALLIED PRODUCTS	2,646,869	418,930	2,227,939	1,944,259	118,315	1,825,944
PETROLEUM & COAL PRODUCTS	7,848,081	417,556	7,430,525	5,482,516	368,598	5,113,918
OTHER	920,435	833,551	86,884	740,074	662,258	77,816
TOTAL	18,473,039	3,214,409	15,258,630	11,012,081	2,125,258	8,886,823
GULF INLAND WATERWAYS UPPER MISSISSIPPI						
FARM PRODUCTS	0	0	0	121,389	121,389	0
MARINE PRODUCTS	17,422	17,422	0	0	0	0
COAL	1,375	1,375	0	6,046	3,015	3,031
CRUDE PETROLEUM	0	0	0	239,366	2,267	237,099
NON METALLIC MIN. EX. FUELS	1,106,379	1,104,759	1,620	28,449	28,449	0
CHEMICALS & ALLIED PRODUCTS	641,020	102,623	538,397	64,288	0	64,288
PETROLEUM & COAL PRODUCTS	462,053	10,156	451,897	192,002	8,185	183,817
OTHER	108,182	79,457	28,725	563,635	540,247	23,388
TOTAL	2,336,431	1,315,792	1,020,639	1,215,175	703,552	511,623
GULF INLAND WATERWAYS OHIO & TRIBUTARIES						
FARM PRODUCTS	0	0	0	22,959	22,959	0
MARINE PRODUCTS	8,757	8,757	0	0	0	0
COAL	0	0	0	1,396,081	1,396,081	0
CRUDE PETROLEUM	3,648	0	3,648	0	0	0
NON-METALLIC MIN. EX. FUELS	1,051,623	1,050,186	1,437	17,893	17,893	0
CHEMICALS & ALLIED PRODUCTS	2,531,576	938,896	1,592,680	291,164	6,036	285,128
PETROLEUM & COAL PRODUCTS	1,072,725	42,232	1,030,493	101,895	23,340	78,555
OTHER	268,835	268,835	0	513,002	485,239	27,763
TOTAL	4,937,164	2,308,906	2,628,258	2,342,994	1,951,548	391,446

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1982

(SHORT TONS)

	SHIPPING			RECEIVING		
GULF INLAND WATERWAYS GREAT LAKES	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	0	0	0	2,961	2,961	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	1,492	1,492	0	1,397	1,397	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	589,481	589,481	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	391,784	12,153	379,631	61,865	0	61,865
PETROLEUM & COAL PRODUCTS	564,919	84,363	480,556	96,232	5,644	90,588
OTHER	132,937	132,937	0	477,222	449,742	27,480
TOTAL	1,680,613	820,426	860,187	639,677	459,744	179,933

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1982

(SHORT TONS)

TOTAL FOR GULF INLAND WATERWAYS	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	1,065,178	1,065,178	0	1,081,562	1,081,562	0
MARINE PRODUCTS	6,215,714	6,017,574	198,140	5,544,779	5,470,239	74,540
COAL	10,914,385	10,910,103	4,282	12,450,211	12,442,898	7,313
CRUDE PETROLEUM	17,228,333	70,340	17,157,993	14,749,215	74,094	14,675,121
NON-METALLIC MIN. EX. FUELS	10,853,722	8,887,477	1,966,245	7,149,372	5,990,398	1,158,974
CHEMICALS & ALLIED PRODUCTS	13,970,544	2,104,061	11,866,483	9,983,887	754,790	9,229,097
PETROLEUM & COAL PRODUCTS	33,727,674	1,116,470	32,611,204	29,088,497	968,130	28,120,367
OTHER	10,542,018	9,566,295	975,723	11,406,243	10,389,682	1,016,561
TOTAL	104,517,568	39,737,498	64,780,070	91,453,766	37,171,793	54,281,973

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1982

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
LOWER MISSISSIPPI						
ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	14,694	14,694	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	39,600	0	39,600	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	0	0	0	0	0	0
TOTAL	54,294	14,694	39,600	0	0	0
LOWER MISSISSIPPI						
GULF INLAND WATERWAYS						
FARM PRODUCTS	199,699	199,699	0	330,624	330,624	0
MARINE PRODUCTS	808	808	0	646,178	522,578	123,600
COAL	311,804	311,804	0	29,886	29,886	0
CRUDE PETROLEUM	1,850,554	19,486	1,831,068	4,565,390	17,999	4,547,391
NON-METALLIC MIN. EX. FUELS	482,367	444,290	38,077	1,485,576	643,285	842,291
CHEMICALS & ALLIED PRODUCTS	1,944,259	118,315	1,825,944	2,646,869	418,930	2,227,939
PETROLEUM & COAL PRODUCTS	5,482,516	368,598	5,113,918	7,848,081	417,556	7,430,525
OTHER	740,074	662,258	77,816	920,435	833,551	86,884
TOTAL	11,012,081	2,125,258	8,886,823	18,473,039	3,214,409	15,258,630
LOWER MISSISSIPPI						
LOWER MISSISSIPPI						
FARM PRODUCTS	11,253,936	11,246,081	7,855	11,253,936	11,246,081	7,855
MARINE PRODUCTS	608	608	0	608	608	0
COAL	6,428,799	6,422,461	6,338	6,428,799	6,422,461	6,338
CRUDE PETROLEUM	4,619,909	102,710	4,517,199	4,619,909	102,710	4,517,199
NON-METALLIC MIN. EX. FUELS	5,597,656	5,271,410	326,246	5,597,656	5,271,410	326,246
CHEMICALS & ALLIED PRODUCTS	4,011,521	1,073,539	2,937,982	4,011,521	1,073,539	2,937,982
PETROLEUM & COAL PRODUCTS	14,606,958	917,096	13,689,862	14,606,958	917,096	13,689,862
OTHER	5,189,745	4,849,193	340,552	5,189,745	4,849,193	340,552
TOTAL	51,709,132	29,883,098	21,826,034	51,709,132	29,883,098	21,826,034

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1982

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
LOWER MISSISSIPPI UPPER MISSISSIPPI						
FARM PRODUCTS	28,556	28,556	0	42,978,425	42,942,982	35,443
MARINE PRODUCTS	0	0	0	0	0	0
COAL	193,019	193,019	0	7,262,670	7,250,585	12,085
CRUDE PETROLEUM	57,487	0	57,487	88,112	0	88,112
NON-METALLIC MIN. EX. FUELS	169,043	169,043	0	353,126	289,066	64,060
CHEMICALS & ALLIED PRODUCTS	3,048,091	1,759,222	1,288,869	218,638	87,213	131,425
PETROLEUM & COAL PRODUCTS	1,317,595	76,529	1,241,066	1,768,556	447,946	1,320,610
OTHER	628,938	437,457	191,481	7,680,028	7,236,949	443,079
TOTAL	5,442,729	2,663,826	2,778,903	60,349,555	58,254,741	2,094,814
LOWER MISSISSIPPI OHIO & TRIBUTARIES						
FARM PRODUCTS	17,481	17,481	0	8,991,481	8,983,441	8,040
MARINE PRODUCTS	0	0	0	0	0	0
COAL	34,926	34,926	0	19,908,010	19,903,077	4,933
CRUDE PETROLEUM	16,108	0	16,108	22,789	0	22,789
NON-METALLIC MIN. EX. FUELS	279,787	279,787	0	1,082,064	1,082,064	0
CHEMICALS & ALLIED PRODUCTS	2,930,573	1,518,842	1,411,731	120,206	21,369	98,837
PETROLEUM & COAL PRODUCTS	1,223,407	148,402	1,075,005	1,663,525	292,190	1,371,335
OTHER	1,068,185	1,022,028	46,157	2,969,886	2,775,390	194,496
TOTAL	5,570,467	3,021,466	2,549,001	34,757,961	33,057,531	1,700,430
LOWER MISSISSIPPI GREAT LAKES						
FARM PRODUCTS	10,854	10,854	0	708,237	708,237	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	85,074	85,074	0	3,850	3,850	0
CRUDE PETROLEUM	7,107	0	7,107	11,244	0	11,244
NON-METALLIC MIN. EX. FUELS	111,944	111,944	0	1,426	1,426	0
CHEMICALS & ALLIED PRODUCTS	499,627	17,387	482,240	50,093	12,620	37,473
PETROLEUM & COAL PRODUCTS	466,058	299,630	166,428	821,210	155,360	665,850
OTHER	591,693	526,670	65,023	925,972	809,641	116,331
TOTAL	1,772,357	1,051,559	720,798	2,522,032	1,691,134	830,898

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1982

(SHORT TONS)

TOTAL FOR LOWER MISSISSIPPI	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	11,510,526	11,502,671	7,855	64,262,703	64,211,365	51,338
MARINE PRODUCTS	1,416	1,416	0	646,786	523,186	123,600
COAL	7,068,316	7,061,978	6,338	33,633,215	33,609,859	23,356
CRUDE PETROLEUM	6,551,165	122,196	6,428,969	9,307,444	120,709	9,186,735
NON-METALLIC MIN. EX. FUELS	6,640,797	6,276,474	364,323	8,519,848	7,287,251	1,232,597
CHEMICALS & ALLIED PRODUCTS	12,473,671	4,487,305	7,986,366	7,047,327	1,613,671	5,433,656
PETROLEUM & COAL PRODUCTS	23,096,534	1,810,255	21,286,279	26,708,330	2,230,148	24,478,182
OTHER	8,218,635	7,497,606	721,029	17,686,066	16,504,724	1,181,342
TOTAL	75,561,060	38,759,901	36,801,159	167,811,719	126,100,913	41,710,806

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1982

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
UPPER MISSISSIPPI						
GULF INLAND WATERWAYS						
FARM PRODUCTS	121,389	121,389	0	0	0	0
MARINE PRODUCTS	0	0	0	17,422	17,422	0
COAL	6,046	3,015	3,031	1,375	1,375	0
CRUDE PETROLEUM	239,366	2,267	237,099	0	0	0
NON-METALLIC MIN. EX. FUELS	28,449	28,449	0	1,106,379	1,104,759	1,620
CHEMICALS & ALLIED PRODUCTS	64,288	0	64,288	641,020	102,623	538,397
PETROLEUM & COAL PRODUCTS	192,002	8,185	183,817	462,053	10,156	451,897
OTHER	563,635	540,247	23,388	108,182	79,457	28,725
TOTAL	1,215,175	703,552	511,623	2,336,431	1,315,792	1,020,639
UPPER MISSISSIPPI						
LOWER MISSISSIPPI						
FARM PRODUCTS	42,978,425	42,942,982	35,443	28,556	28,556	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	7,262,670	7,250,585	12,085	193,019	193,019	C
CRUDE PETROLEUM	88,112	0	88,112	57,487	0	57,487
NON-METALLIC MIN. EX. FUELS	353,126	289,066	64,060	169,043	169,043	0
CHEMICALS & ALLIED PRODUCTS	218,638	87,213	131,425	3,048,091	1,759,222	1,288,869
PETROLEUM & COAL PRODUCTS	1,768,556	447,946	1,320,610	1,317,595	76,529	1,241,066
OTHER	7,680,028	7,236,949	443,079	628,938	437,457	191,481
TOTAL	60,349,555	58,254,741	2,094,814	5,442,729	2,663,826	2,778,903
UPPER MISSISSIPPI						
UPPER MISSISSIPPI						
FARM PRODUCTS	292,999	292,999	0	292,999	292,999	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	7,081,248	7,071,098	10,150	7,081,248	7,071,098	10,150
CRUDE PETROLEUM	26,066	0	26,066	26,066	0	26,066
NON-METALLIC MIN. EX. FUELS	4,658,840	4,658,840	0	4,658,840	4,658,840	0
CHEMICALS & ALLIED PRODUCTS	873,014	213,941	659,073	873,014	213,941	659,073
PETROLEUM & COAL PRODUCTS	3,109,997	243,857	2,866,140	3,109,997	243,857	2,866,140
OTHER	997,622	980,323	17,299	997,622	980,323	17,299
TOTAL	17,039,786	13,461,058	3,578,728	17,039,786	13,461,058	3,578,728

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1982

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
UPPER MISSISSIPPI OHIO & TRIBUTARIES						
FARM PRODUCTS	278,569	278,569	0	3,251	3,251	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	95,255	95,255	0	1,994,613	1,993,137	1,476
CRUDE PETROLEUM	0	0	0	3,350	0	3,350
NON-METALLIC MIN. EX. FUELS	35,251	35,251	0	2,943	2,943	0
CHEMICALS & ALLIED PRODUCTS	238,375	101,445	136,930	46,354	4,400	41,954
PETROLEUM & COAL PRODUCTS	939,405	76,902	862,503	531,254	2,929	528,325
OTHER	309,034	301,367	7,667	340,620	337,445	3,175
TOTAL	1,895,889	888,789	1,007,100	2,922,385	2,344,105	578,280
UPPER MISSISSIPPI GREAT LAKES						
FARM PRODUCTS	86,425	86,425	0	1,291	1,291	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	3,263,446	3,262,010	1,436	0	0	0
CRUDE PETROLEUM	20,909	0	20,909	292,070	0	292,070
NON-METALLIC MIN. EX. FUELS	1,064,592	1,064,592	0	568,398	568,398	0
CHEMICALS & ALLIED PRODUCTS	173,497	0	173,497	56,602	35,017	21,585
PETROLEUM & COAL PRODUCTS	807,734	338,815	468,919	421,960	10,775	411,185
OTHER	448,598	442,924	5,674	1,364,211	210,348	1,153,863
TOTAL	5,865,201	5,194,766	670,435	2,704,532	825,829	1,878,703

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1982

(SHORT TONS)

TOTAL FOR UPPER MISSISSIPPI

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	43,757,807	43,722,364	35,443	326,097	326,097	0
MARINE PRODUCTS	0	0	0	17,422	17,422	0
COAL	17,708,665	17,681,963	26,702	9,270,255	9,258,629	11,626
CRUDE PETROLEUM	374,453	2,267	372,186	378,973	0	378,973
NON-METALLIC MIN. EX. FUELS	6,140,258	6,076,198	64,060	6,505,603	6,503,983	1,620
CHEMICALS & ALLIED PRODUCTS	1,567,812	402,599	1,165,213	4,665,081	2,115,203	2,549,878
PETROLEUM & COAL PRODUCTS	6,817,694	1,115,705	5,701,989	5,842,859	344,246	5,498,613
OTHER	9,998,917	9,501,810	497,107	3,439,573	2,045,030	1,394,543
TOTAL	86,365,606	78,502,906	7,862,700	30,445,863	20,610,810	9,835,253

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1982

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
OHIO & TRIBUTARIES ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	1,238,727	1,238,727	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	0	0	0	0	0	0
TOTAL	1,238,727	1,238,727	0	0	0	0
OHIO & TRIBUTARIES GULF INLAND WATERWAYS						
FARM PRODUCTS	22,959	22,959	0	0	0	0
MARINE PRODUCTS	0	0	0	8,757	8,757	0
COAL	1,396,081	1,396,081	0	0	0	0
CRUDE PETROLEUM	0	0	0	3,648	0	3,648
NON-METALLIC MIN. EX. FUELS	17,893	17,893	0	1,051,623	1,050,186	1,437
CHEMICALS & ALLIED PRODUCTS	291,164	6,036	285,128	2,531,576	938,896	1,592,680
PETROLEUM & COAL PRODUCTS	101,895	23,340	78,555	1,072,725	42,232	1,030,493
OTHER	513,002	485,239	27,763	268,835	268,835	0
TOTAL	2,342,994	1,951,548	391,446	4,937,164	2,308,906	2,628,258
OHIO & TRIBUTARIES LOWER MISSISSIPPI						
FARM PRODUCTS	8,991,481	8,983,441	8,040	17,481	17,481	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	19,908,010	19,903,077	4,933	34,926	34,926	0
CRUDE PETROLEUM	22,789	0	22,789	16,108	0	16,108
NON-METALLIC MIN. EX. FUELS	1,082,064	1,082,064	0	279,787	279,787	0
CHEMICALS & ALLIED PRODUCTS	120,206	21,369	98,837	2,930,573	1,518,842	1,411,731
PETROLEUM & COAL PRODUCTS	1,663,525	292,190	1,371,335	1,223,407	148,402	1,075,005
OTHER	2,969,886	2,775,390	194,496	1,068,185	1,022,028	46,157
TOTAL	34,757,961	33,057,531	1,700,430	5,570,467	3,021,466	2,549,001

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1982

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
OHIO & TRIBUTARIES						
UPPER MISSISSIPPI						
FARM PRODUCTS	3,251	3,251	0	278,569	278,569	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	1,994,613	1,993,137	1,476	95,255	95,255	0
CRUDE PETROLEUM	3,350	0	3,350	0	0	0
NON-METALLIC MIN. EX. FUELS	2,943	2,943	0	35,251	35,251	0
CHEMICALS & ALLIED PRODUCTS	46,354	4,400	41,954	238,375	101,445	136,930
PETROLEUM & COAL PRODUCTS	531,254	2,929	528,325	939,405	76,902	862,503
OTHER	340,620	337,445	3,175	309,034	301,367	7,667
TOTAL	2,922,385	2,344,105	578,280	1,895,889	888,789	1,007,100
OHIO & TRIBUTARIES						
OHIO & TRIBUTARIES						
FARM PRODUCTS	79,993	79,993	0	79,993	79,993	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	71,646,100	71,637,497	8,603	71,645,100	71,637,497	8,603
CRUDE PETROLEUM	558,430	0	558,430	558,430	0	558,430
NON-METALLIC MIN. EX. FUELS	13,702,632	13,701,129	1,503	13,702,632	13,701,129	1,503
CHEMICALS & ALLIED PRODUCTS	1,333,812	21,479	1,312,333	1,333,812	21,479	1,312,333
PETROLEUM & COAL PRODUCTS	9,172,478	106,964	9,065,514	9,172,478	106,964	9,065,514
OTHER	1,703,864	1,663,704	40,160	1,703,864	1,663,704	40,160
TOTAL	98,197,309	87,210,766	10,986,543	98,197,309	87,210,766	10,986,543
OHIO & TRIBUTARIES						
GREAT LAKES						
FARM PRODUCTS	12,179	12,179	0	1,723	1,723	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	163,471	163,471	0	0	0	0
CRUDE PETROLEUM	20,973	0	20,973	8,996	0	8,996
NON-METALLIC MIN. EX. FUELS	7,390	7,390	0	1,405	1,405	0
CHEMICALS & ALLIED PRODUCTS	112,894	0	112,894	48,461	20,675	27,786
PETROLEUM & COAL PRODUCTS	48,534	13,201	35,333	172,021	66,478	105,543
OTHER	172,285	172,285	0	42,408	42,408	0
TOTAL	537,726	368,526	169,200	275,014	132,689	142,325

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1982

(SHORT TONS)

TOTAL FOR OHIO & TRIBUTARIES	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	9,109,863	9,101,823	8,040	377,766	377,766	0
MARINE PRODUCTS	0	0	0	8,757	8,757	0
COAL	96,347,002	96,331,990	15,012	71,776,281	71,767,678	8,603
CRUDE PETROLEUM	605,542	0	605,542	587,182	0	587,182
NON-METALLIC MIN. EX. FUELS	14,812,922	14,811,419	1,503	15,070,698	15,067,758	2,940
CHEMICALS & ALLIED PRODUCTS	1,904,430	53,284	1,851,146	7,082,797	2,601,337	4,481,460
PETROLEUM & COAL PRODUCTS	11,517,686	438,624	11,079,062	12,580,036	440,978	12,139,058
OTHER	5,699,657	5,434,063	265,594	3,392,326	3,298,342	93,984
TOTAL	139,997,102	126,171,203	13,825,899	110,875,843	93,562,616	17,313,227

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1982

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
CALIFORNIA						
CALIFORNIA						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	401,514	401,514	0	401,514	401,514	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	3,118,988	682,223	2,436,765	3,118,988	682,223	2,436,765
NON-METALLIC MIN. EX. FUELS	767,993	767,993	0	767,993	767,993	0
CHEMICALS & ALLIED PRODUCTS	18,571	21	18,550	18,571	21	18,550
PETROLEUM & COAL PRODUCTS	9,516,580	734,800	8,781,780	9,516,580	734,800	8,781,780
OTHER	2,560,126	2,504,321	55,805	2,560,126	2,504,321	55,805
TOTAL	16,383,772	5,090,872	11,292,900	16,383,772	5,090,872	11,292,900

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1982

(SHORT TONS)

TOTAL FOR CALIFORNIA	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	401,514	401,514	0	401,514	401,514	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	3,118,988	682,223	2,436,765	3,118,988	682,223	2,436,765
NON-METALLIC MIN. EX. FUELS	767,993	767,993	0	767,993	767,993	0
CHEMICALS & ALLIED PRODUCTS	18,571	21	18,550	18,571	21	18,550
PETROLEUM & COAL PRODUCTS	9,516,580	734,800	8,781,780	9,516,580	734,800	8,781,780
OTHER	2,560,126	2,504,321	55,805	2,560,126	2,504,321	55,805
TOTAL	16,383,772	5,090,872	11,292,900	16,383,772	5,090,872	11,292,900

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1982

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
PACIFIC NORTHWEST						
PACIFIC NORTHWEST						
FARM PRODUCTS	5,482,193	3,196,560	2,285,633	5,482,193	3,196,560	2,285,633
MARINE PRODUCTS	175,943	175,887	56	175,943	175,887	56
COAL	2,800	2,800	0	2,800	2,800	0
CRUDE PETROLEUM	2,271,036	2,604	2,268,432	2,271,036	2,604	2,268,432
NON-METALLIC MIN. EX. FUELS	5,388,566	5,350,959	37,607	5,388,566	5,350,959	37,607
CHEMICALS & ALLIED PRODUCTS	376,531	181,164	195,367	376,531	181,164	195,367
PETROLEUM & COAL PRODUCTS	7,463,080	347,053	7,116,027	7,463,080	347,053	7,116,027
OTHER	19,960,151	19,645,090	315,061	19,960,151	19,645,090	315,061
TOTAL	41,120,300	28,902,117	12,218,183	41,120,300	28,902,117	12,218,183

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1982

(SHORT TONS)

TOTAL FOR PACIFIC NORTHWEST	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	5,482,193	3,196,560	2,285,633	5,482,193	3,196,560	2,285,633
MARINE PRODUCTS	175,943	175,887	56	175,943	175,887	56
COAL	2,800	2,800	0	2,800	2,800	0
CRUDE PETROLEUM	2,271,036	2,604	2,268,432	2,271,036	2,604	2,268,432
NON-METALLIC MIN. EX. FUELS	5,388,566	5,350,959	37,607	5,388,566	5,350,959	37,607
CHEMICALS & ALLIED PRODUCTS	376,531	181,164	195,367	376,531	181,164	195,367
PETROLEUM & COAL PRODUCTS	7,463,080	347,053	7,116,027	7,463,080	347,053	7,116,027
OTHER	19,960,151	19,645,090	315,061	19,960,151	19,645,090	315,061
TOTAL	41,120,300	28,902,117	12,218,183	41,120,300	28,902,117	12,218,183

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1982

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
GREAT LAKES						
NORTH EASTERN						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	2,363	0	2,363	23,664	0	23,664
OTHER	0	0	0	0	0	0
TOTAL	2,363	0	2,363	23,664	0	23,664
GREAT LAKES						
ATLANTIC INLAND WATERWAYS						
FARM PRODUCTS	0	0	0	0	0	0
MARINE PRODUCTS	268	268	0	0	0	0
COAL	0	0	0	0	0	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	109,081	109,081	0	0	0	0
CHEMICALS & ALLIED PRODUCTS	0	0	0	0	0	0
PETROLEUM & COAL PRODUCTS	0	0	0	0	0	0
OTHER	0	0	0	0	0	0
TOTAL	109,349	109,349	0	0	0	0
GREAT LAKES						
GULF INLAND WATERWAYS						
FARM PRODUCTS	2,961	2,961	0	0	0	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	1,397	1,397	0	1,492	1,492	0
CRUDE PETROLEUM	0	0	0	0	0	0
NON-METALLIC MIN. EX. FUELS	0	0	0	589,481	589,481	0
CHEMICALS & ALLIED PRODUCTS	61,865	0	61,865	391,784	12,153	379,631
PETROLEUM & COAL PRODUCTS	96,232	5,644	90,588	564,919	84,363	480,556
OTHER	477,222	449,742	27,480	132,937	132,937	0
TOTAL	639,677	459,744	179,933	1,680,613	820,426	860,187

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1982

(SHORT TONS)

	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
GREAT LAKES						
LOWER MISSISSIPPI						
FARM PRODUCTS	708,237	708,237	0	10,854	10,854	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	3,850	3,850	0	85,074	85,074	0
CRUDE PETROLEUM	11,244	0	11,244	7,107	0	7,107
NON-METALLIC MIN. EX. FUELS	1,426	1,426	0	111,944	111,944	0
CHEMICALS & ALLIED PRODUCTS	50,093	12,620	37,473	499,627	17,387	482,240
PETROLEUM & COAL PRODUCTS	821,210	155,360	665,850	466,058	299,630	166,428
OTHER	925,972	809,641	116,331	591,693	526,670	65,023
TOTAL	2,522,032	1,691,134	830,898	1,772,357	1,051,559	720,798
GREAT LAKES						
UPPER MISSISSIPPI						
FARM PRODUCTS	1,291	1,291	0	86,425	86,425	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	3,263,446	3,262,010	1,436
CRUDE PETROLEUM	292,070	0	292,070	20,909	0	20,909
NON-METALLIC MIN. EX. FUELS	568,398	568,398	0	1,064,592	1,064,592	0
CHEMICALS & ALLIED PRODUCTS	56,602	35,017	21,585	173,497	0	173,497
PETROLEUM & COAL PRODUCTS	421,960	10,775	411,185	807,734	338,815	468,919
OTHER	1,364,211	210,348	1,153,863	448,598	442,924	5,674
TOTAL	2,704,532	825,829	1,878,703	5,865,201	5,194,766	670,435
GREAT LAKES						
OHIO & TRIBUTARIES						
FARM PRODUCTS	1,723	1,723	0	12,179	12,179	0
MARINE PRODUCTS	0	0	0	0	0	0
COAL	0	0	0	163,471	163,471	0
CRUDE PETROLEUM	8,996	0	8,996	20,973	0	20,973
NON-METALLIC MIN. EX. FUELS	1,405	1,405	0	7,390	7,390	0
CHEMICALS & ALLIED PRODUCTS	48,461	20,675	27,786	112,894	0	112,894
PETROLEUM & COAL PRODUCTS	172,021	66,478	105,543	48,534	13,201	35,333
OTHER	42,408	42,408	0	172,285	172,285	0
TOTAL	275,014	132,689	142,325	537,726	368,526	169,200

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U.S. INLAND WATERWAYS COMMERCE BY AREA, COMMODITY AND TYPE OF VESSEL FOR 1982

(SHORT TONS)

TOTAL FOR GREAT LAKES	SHIPPING			RECEIVING		
	TOTAL	DRY	TANK	TOTAL	DRY	TANK
FARM PRODUCTS	714,212	714,212	0	109,458	109,458	0
MARINE PRODUCTS	268	268	0	0	0	0
COAL	5,247	5,247	0	3,513,483	3,512,047	1,436
CRUDE PETROLEUM	312,310	0	312,310	48,989	0	48,989
NON-METALLIC MIN. EX. FUELS	680,310	680,310	0	1,773,407	1,773,407	0
CHEMICALS & ALLIED PRODUCTS	217,021	68,312	148,709	1,177,802	29,540	1,148,262
PETROLEUM & COAL PRODUCTS	1,513,786	238,257	1,275,529	1,910,909	736,009	1,174,900
OTHER	2,809,813	1,512,139	1,297,674	1,345,513	1,274,816	70,697
TOTAL	6,252,967	3,218,745	3,034,222	9,879,561	7,435,277	2,444,284

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